URS

April 14, 2011

Mr. Steven F. Nightingale, P.E.
Manager, Permit Section
Illinois Environmental Protection Agency
Bureau of Land
1021 North Grand Avenue East
Springfield, Illinois 62794

Subject: **Groundwater Monitoring Report – 1st Quarter 2011**
Roxana, Illinois
119115002 – Madison County
Equilon Enterprises LLC d/b/a Shell Oil Products US
Log No. B-43-CA-16 and 18

Dear Mr. Nightingale:

On behalf of Shell Oil Products US, URS Corporation is submitting the enclosed report for your review. This sampling was required by Condition 7 of the Agency's letter dated August 5, 2010.

If you have any questions during your review, please contact Kevin Dyer, SOPUS project manager, at kevin.dyer@shell.com (618/288-7237), or me at bob_billman@urscorp.com (314/743-4108).

Sincerely,

Robert B Billman

Robert B. Billman
Senior Project Manager

Enclosures: RCRA Corrective Action Certification and Report (original plus 2 copies)

Cc: Kevin Dyer, SOPUS
Marty Reynolds, Village of Roxana
Eric Petersen, ConocoPhillips

1001 Highland Plaza Drive West, Suite 300
St. Louis, MO 63110
Phone: 314.429.0100
Fax: 314.429.0462

ILLINOIS EPA RCRA CORRECTIVE ACTION CERTIFICATION

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County: Madison
Street Address: 900 South Central Ave.
Site No. (IEPA): 1191150002
City: Roxana, IL 62084
Site No. (USEPA): ILD 080 012 305

2.0 OWNER INFORMATION

Name: Not Applicable
Mailing Address:

3.0 OPERATOR INFORMATION

Equilon Enterprises LLC d/b/a Shell Oil Products US
17 Junction Drive, PMB #399
Glen Carbon, IL 62034
Contact Name: Kevin Dyer
Contact Title: Principal Program Manager
Phone No.: 618-288-7237

4.0 TYPE OF SUBMISSION (check applicable item and provide requested information, as applicable)

☐ RFI Phase I Workplan/Report
☐ RFI Phase II Workplan/Report
☐ CMP Report; Phase _____
☒ Other (describe):
Groundwater Sampling Report – 1st Quarter 2011
Date of Submittal 4-14-11

IEPA Permit Log No. _____
Date of Last IEPA Letter on Project 4/6/11
Log No. of Last IEPA Letter on Project B-43R-CA-9
Does this submittal include groundwater information: ☒ Yes ☐ No

5.0 DESCRIPTION OF SUBMITTAL: (briefly describe what is being submitted and its purpose)

Groundwater sampling report for the 1st quarter 2011 sampling event in the project area in the Village of Roxana.

6.0 DOCUMENTS SUBMITTED (identify all documents in submittal, including cover letter; give dates of all documents)

Cover letter, RCRA Corrective Action Certification and Groundwater Sampling Report – 1st Quarter 2011, dated 4-14-11

7.0 CERTIFICATION STATEMENT - ***(This statement is part of the overall certification being provided by the owner/operator, professional and laboratory in Items 7.1, 7.2 and 7.3 below).*** The activities described in the subject submittals have been carried out in accordance with procedures approved by Illinois EPA. I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

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2. the written authorization is provided with this submittal (a copy of a previously submitted authorization can be used).

Owner Signature: _____ _____ (Date)

Title: _____

Operator Signature: Kevin E Meyer 4/14/11 (Date)

Title: Principal Program Manager

7.2 **PROFESSIONAL CERTIFICATION** *(if necessary)* - Work carried out in this submittal or the regulations may also be subject to other laws governing professional services, such as the Illinois Professional Land Surveyor Act of 1989, the Professional Engineering Practice Act of 1989, the Professional Geologist Licensing Act, and the Structural Engineering Licensing Act of 1989. No one is relieved from compliance with these laws and the regulations adopted pursuant to these laws. All work that falls within the scope and definitions of these laws must be performed in compliance with them. The Illinois EPA may refer any discovered violation of these laws to the appropriate regulating authority.

Professional's Signature: Robert B Billman 4/14/11 Date

Professional's Name: Robert B. Billman

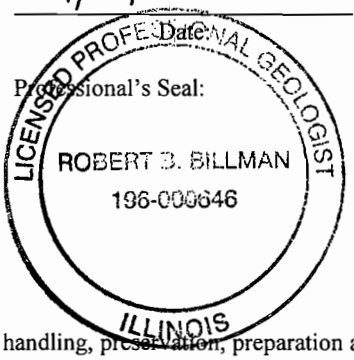
Professional's Address: URS Corporation

1001 Highlands Plaza Drive West

St. Louis, MO 63110

Professional's Phone No.: 314-743-4108

Professional's Seal:



7.3 **LABORATORY CERTIFICATION** *(if necessary)* - The sample collection, handling, preservation, preparation and analysis efforts for which this laboratory was responsible were carried out in accordance with procedures approved by Illinois EPA

Name of Laboratory _____

Mailing Address of Laboratory

_____

_____

_____

_____
Signature of Laboratory Responsible Officer Date

_____
Name and Title of Laboratory Responsible Officer

M11395

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Mailing Address:

3.0 OPERATOR INFORMATION

Equilon Enterprises LLC d/b/a Shell Oil Products US
17 Junction Drive, PMB #399
Glen Carbon, IL 62034
Contact Name: Kevin Dyer
Contact Title: Principal Program Manager
Phone No.: 618-288-7237

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☐ RFI Phase II Workplan/Report
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☒ Other (describe):
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M77595

IEPA RCRA Corrective Action Certification
For: Equilon Enterprises LLC d/b/a Shell Oil Products US
Date of Submission: 4-14-11
Page 2

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Title: _____

Operator Signature: _____ _____ (Date)

Title: Principal Program Manager

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Professional's Signature: _____ _____ Date:

Professional's Name: Robert B. Billman

Professional's Seal:

Professional's Address: URS Corporation

1001 Highlands Plaza Drive West

St. Louis, MO 63110

Professional's Phone No.: 314-743-4108

X (7.3) **LABORATORY CERTIFICATION** *(if necessary)* - The sample collection, handling, preservation, preparation and analysis efforts for which this laboratory was responsible were carried out in accordance with procedures approved by Illinois EPA.

Name of Laboratory _____

X _____ 4-11-11
Signature of Laboratory Responsible Officer — Date

Reza Tand / Lab director
Name and Title of Laboratory Responsible Officer

Accutest Laboratories
495 Technology Center West
Building One
Marlboro, MA 01752
(508) 481-6200

M4734 1

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Mailing Address:

3.0 OPERATOR INFORMATION

Equilon Enterprises LLC d/b/a Shell Oil Products US

17 Junction Drive, PMB #399

Glen Carbon, IL 62034

Contact Name:

Kevin Dyer

Contact Title:

Principal Program Manager

Phone No.:

618-288-7237

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M41347

IEPA RCRA Corrective Action Certification
For: Equilon Enterprises LLC d/b/a Shell Oil Products US
Date of Submission: 4-14-11

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Professional's Name: Robert B. Billman

Professional's Seal:

Professional's Address: URS Corporation

1001 Highlands Plaza Drive West

St. Louis, MO 63110

Professional's Phone No.: 314-743-4108

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Name of Laboratory _____ X _____ 4-11-11
Signature of Laboratory Responsible Officer — Date

Accutest Laboratories
495 Technology Center West
Building One
Marlboro, MA 01752
(508) 481-6200

Reza Tand / Lab director
Name and Title of Laboratory Responsible Officer

M47346

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M91346

IEPA RCRA Corrective Action Certification
For: Equilon Enterprises LLC d/b/a Shell Oil Products US
Date of Submission: 4-14-11
Page 2

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Signature of Laboratory Responsible Officer — Date

Accutest Laboratories
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(508) 481-6200

Rezu Fard / Lab Director
Name and Title of Laboratory Responsible Officer

M97264

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Contact Name: Kevin Dyer
Contact Title: Principal Program Manager
Phone No.: 618-288-7237

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M997264

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Reza Tand / Lab director
Name and Title of Laboratory Responsible Officer

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(508) 481-6200

M9 1421

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Kevin Dyer

Contact Title:

Principal Program Manager

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M4'/42/

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St. Louis, MO 63110

Professional's Phone No.: 314-743-4108

7.3 **LABORATORY CERTIFICATION** *(if necessary)* - The sample collection, handling, preservation, preparation and analysis efforts for which this laboratory was responsible were carried out in accordance with procedures approved by Illinois EPA.

Name of Laboratory _____

Accutest Laboratories
495 Technology Center West
Building One
Marlboro, MA 01752
(508) 481-6200

* _____ 4-11-11
Signature of Laboratory Responsible Officer — Date

Reza Tand / Lab director
Name and Title of Laboratory Responsible Officer

REPORT

GROUNDWATER SAMPLING – 1ST QUARTER 2011

Roxana, Illinois

Prepared for:

Shell Oil Products US
17 Junction Drive
PMB#399
Glen Carbon, Illinois 62034

April 2011

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URS Corporation (URS) is submitting this report on behalf of Shell Oil Products US (SOPUS) for the 1st Quarter 2011 (1Q11) gauging and groundwater sampling activities conducted in the Village of Roxana, Illinois (**Figure 1**). Some wells within the WRB Refining LP Wood River Refinery (WRR) were also sampled as part of this event. The area within the Village of Roxana is generally bounded by Illinois Route 111 and the west property boundary (aka west fenceline) of the WRR. Activities within the refinery were conducted in cooperation with ConocoPhillips Company (COP). The combined area is collectively referred to as the "Investigation Area" in this report.

In a letter from the Illinois Environmental Protection Agency (IEPA) to Shell dated August 5, 2010, the Agency requested various site characterization and monitoring activities and initiation of an interim groundwater monitoring program. This program began in the 4th quarter 2010, and the first report was submitted on January 14, 2011. On March 3, 2011, a call was held between representatives of SOPUS, IEPA and URS to discuss the groundwater monitoring program and IEPA's general comments on the 4th quarter 2010 monitoring report. Modifications based on some of these comments have been incorporated into this report. Other comments that require more data evaluation will be incorporated beginning with the 2nd quarter 2011 report.

Groundwater samples were collected and analyzed during the 1st quarter to meet the requirements of the interim groundwater monitoring program. **Figure 2** shows the monitoring wells that are part of the interim monitoring well network.

The monitoring well gauging and sampling activities discussed in this section are part of the interim groundwater monitoring program.

2.1 ADDITIONAL ACTIVITIES

This section describes additions to the monitoring program for the 1st quarter event.

- A loss of groundwater control by the WRR was initially reported to the Agency in a Groundwater Flow Control Notification letter dated February 4, 2011 and subsequently in a 30-Day Report for Groundwater Flow Control dated March 4, 2011. One of the resulting actions included gauging a subset of the refinery and Village monitoring wells on a weekly basis, and this has continued to date, and the data have been reviewed for this report.
- Hydrocarbon light non-aqueous phase liquid (LNAPL) was observed in a small diameter piezometer, ROST-4-PZ (located at the intersection of 3rd and Chaeffer Streets), during the aforementioned gauging events. Prior to 1Q11, product had not been observed since its installation (Summer 2009). The presence of product was reported to the Agency in a Notification of Free Product Observation letter dated February 7, 2011 and an Additional Information Regarding the 2/7/11 Notification of Free Product letter dated March 14, 2011. To date, product measurements have ranged from no product to 0.04 feet.
- Monitoring well P-93D (on the WRR North Property) became unserviceable due to a failure of the sampling pump, which had become stuck in the well. As a result, this well was not sampled during the 1Q11 event. The well was abandoned and a replacement well was installed and developed during March 2011. The replacement well (with the same ID) was installed within 10 feet of the existing monitoring well and was screened to monitor the same zone. The former P-93D was grouted in place and cut-off about 3 feet below grade per Illinois State regulations. The replacement well will be incorporated into the monitoring program starting in the 2nd Quarter 2011.

2.2 GROUNDWATER GAUGING AND SAMPLING

Groundwater Gauging

A comprehensive round of gauging was conducted on January 13 and 14, 2011 to evaluate groundwater flow direction and identify separate phase product in the Investigation Area.

Low Flow Purging and Sampling

Low-flow purging and sampling procedures were followed for most wells during the sampling event. Prior to sampling, the initial water level was measured and recorded on the field sheets.

Monitoring wells MW-1 through MW-13[1] and P-54 were purged and sampled using a stainless steel submersible bladder pump and bonded designated polyethylene tubing.[2] The submersible bladder pump was powered by the QED Sample Pro controller unit. A new bladder was used at each monitoring well. The submersible bladder pump with the proper length of designated polyethylene tubing was slowly lowered into the monitoring well to be sampled and set with the pump intake near the midpoint of monitoring well screen. The tubing from the pump was connected to a flow-through cell, which discharged into a 5-gallon plastic bucket. Pumping was performed at a low flow rate (≤ 200 mL/minute) so as to not create drawdown of the water level within the monitoring well. During groundwater purging, water quality parameters (pH, temperature, conductivity, turbidity, dissolved oxygen (DO) and oxidation-reduction (ORP)) were measured and recorded on the field sheets after every flow-through cell volume. Purging continued until a minimum of three flow-through cell volumes of water were removed and the water quality parameters stabilized. Once stabilization was achieved, the groundwater flow was diverted from the flow-through cell and groundwater samples were collected for volatile organic compound (VOC) and semivolatile organic compound (SVOC) analysis. Groundwater sampling data sheets are included in **Appendix A**.

Well Wizard® Purging and Sampling

Monitoring wells P-93A, P-93B, and P-93C in the WRR North Property were purged and sampled using a dedicated stainless steel QED Well Wizard® groundwater sampling pump. These wells are part of the WRR monitoring program, and the sampling procedures for these wells are different than those in Roxana. The Well Wizard® pump and associated tubing is dedicated to each well and remains in place between sampling events. The pump intake is positioned near the midpoint of the well screen and the pump is operated using a QED MicroPurge Engine/Compressor with a QED Control Box. The depth to water measurement at each well is used to calculate well volume of each well. Purging of each of these wells continued until a minimum of three well volumes of water was removed from the well. Water quality parameters (i.e., pH, temperature, conductivity and turbidity) were then measured and

[1] Well MW-13 was installed at the end of 4th quarter 2010 and was sampled for the first time during this 1st quarter 2011 sampling event.
[2] "Designated" tubing is used for multiple sampling events, and is stored in a bag designated for the particular well between sampling events.

groundwater samples were collected for VOC and SVOC analysis. Groundwater sampling data sheets are included in **Appendix A**.

2.3 HEALTH & SAFETY, DECONTAMINATION, AND INVESTIGATIVE DERIVED WASTE (IDW)

The quarterly sampling activities were performed in general accordance with the investigation area Health and Safety Plan (HASP).

Prior to beginning site work, and at the start of work each day, a daily safety meeting was held. The purpose of this meeting was to discuss the day's planned activities and to address any potential health and safety concerns.

URS field personnel primarily wore U.S. Environmental Protection Agency (USEPA) modified Level D personal protective equipment (PPE), which included hard hat, boots, safety glasses, etc. In addition, work within the WRR was performed wearing flame retardant clothing (FRCs) per WRR requirements (in areas where required).

A photoionization detector (PID) with a 10.2 electron volt (eV) probe, combustible gas indicator (CGI), and individual Hydrogen Sulfide gas detectors (for locations inside WRR) were used during the field activities to monitor air quality for health and safety purposes. Field instruments were calibrated prior to use each day in accordance with the manufacturer's specifications.

Health and safety related information was primarily recorded in field logbooks.

A low energy work permit was also issued each day by COP operators for groundwater sampling activities within the WRR. COP personnel inspected the work areas and monitored the ambient air, as necessary, prior to the issuance of daily work permits.

Field personnel and equipment underwent decontamination procedures to ensure the health and safety of those present, to maintain sample integrity, and to minimize cross contamination. Non-disposable (reusable) sampling equipment (e.g., groundwater pump) was decontaminated prior to the collection of each analytical sample, between sample locations, and prior to leaving the investigation site by washing with LiquiNox and a distilled water rinse. Personnel and small equipment decontamination was performed at the sample locations.

Investigative derived waste (IDW), such as purge water and decontamination water, generated during monitoring well sampling activities was collected, stored and disposed properly. Expendable materials (e.g., disposable sampling equipment such as gloves and tubing) having a low probability of impact were collected in trash bags and disposed as municipal waste.

Decontamination fluids and purge water from wells at the Public Works facility (i.e., MW-7, MW-8) were collected in 55-gallon steel drums staged at the Public Works Yard. This material is managed has hazardous waste based on prior characterization and is being disposed at the Heritage Environmental Disposal Facility in East Liverpool, Ohio.

Decontamination fluids and purge water from wells in the other areas of the Village of Roxana were collected in a 6,900-gallon double-walled polyethylene tank staged at the Public Works Yard. This material is managed as non-hazardous waste based on prior characterization and will be managed as such.

Decontamination fluids and purge water related to or generated from work within the WRR were collected and disposed, per a COP issued permit, through the WRR's National Pollutant Discharge Elimination System (NPDES) permitted Wastewater Treatment Plant (WWTP).

2.4 SAMPLE HANDLING AND LABORATORY TESTING

Samples were collected in laboratory-supplied containers, labeled in the field and information was recorded on the chain of custody (COC) forms at the time of sampling. The sample ID format used, starting with 1st quarter 2011, is "well ID-ROX-date". The COCs can be found with the analytical reports in **Appendix B**. After collection, the samples were placed on ice, packaged to prevent damage during shipment, and cooled to approximately 4°C. The samples were then delivered, under the proper COC documentation, to the laboratory for analysis. Samples were analyzed by Accutest Laboratories in Marlborough, Massachusetts for VOCs, via USEPA Method 8260B, and SVOCs, via USEPA Method 8270C.

A total of 28 groundwater samples (20 investigative samples, 3 field duplicates, 3 equipment blanks, and 2 MS/MSD) were prepared and analyzed for VOCs and SVOCs. A trip blank (each consisting of one 40-mL vial) was included in every cooler which contained samples for VOC analysis. A total of 5 trip blanks were analyzed for VOCs for the groundwater sampling event.

2.5 DATA QUALITY REVIEW AND DATA MANAGEMENT

Laboratory data were provided in electronic form, and were independently reviewed and qualified by URS through a Level III validation. Evaluation of the data followed procedures outlined in the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (USEPA 2008). The laboratory assigned data qualifiers on the basis of their quality control or to indicate sample analysis information (e.g., dilutions). Data qualifiers

were also added by URS, as appropriate, and are included on the data table and the laboratory result pages (**Appendix B**). The results of the data review are discussed in Section 3.2.

Field data and documentation collected as part of this scope of work became part of the project file. URS maintains the files for the site, and the database management system.

The following documentation was completed and supplements the COC records:

- Field logbooks
- Field sample collection sheets
- Safety documentation

This section presents the results of the 1st quarter 2011 groundwater sampling event.

3.1 GROUNDWATER GAUGING AND SAMPLING RESULTS

Table 1 presents cumulative information from the gauging events for the subject monitoring wells and piezometers. Water levels were above the top of the screens in many of the wells gauged for this event, consistent with the past several quarters. **Figure 3** illustrates the potentiometric surface observed during this gauging. **Table 2** presents cumulative information on groundwater field parameters obtained during sampling.

3.2 DATA QUALITY REVIEW RESULTS

Twenty investigative groundwater samples, three pairs of field duplicates, two matrix spike/matrix spike duplicates (MS/MSDs), five trip blanks, and three equipment blanks were collected in the first quarter of 2011. Trip blanks, equipment blanks and laboratory method blanks were analyzed to evaluate for the existence and magnitude of any contamination resulting from field and laboratory activities. Compounds detected in blanks are specified in the data reviews (**Appendix B**). The following were qualified due to blank contamination: the SVOC compound, diethyl phthalate was qualified non-detect (**U**) in 17 samples; and the VOC compounds acetone, methyl tert-butyl ether, and benzene were qualified (**U**) in 6 samples. Based on the above-mentioned criteria, the groundwater results reported for the analyses performed were accepted for their intended use. Acceptable levels of accuracy and precision, based on MS/MSD, LCS, surrogate and field duplicate data were achieved for these sample delivery groups (SDGs) to meet the project objectives.

3.3 ANALYTICAL RESULTS AND DISCUSSION

The laboratory analytical detections for the groundwater samples collected during this event are presented in **Table 3[3].**

The following petroleum hydrocarbons were reported at concentrations above the laboratory reporting limit in groundwater samples during the 1st Quarter 2011 sampling event.

[3] The P-93 nested wells are required to be sampled as part of both the WRR and the Roxana/Route 111 groundwater monitoring programs. These programs currently require different laboratory analyses and therefore two different samples were collected. These samples are collected at the same time and using the same protocols. The analytical results between the two groundwater monitoring programs may vary slightly.

Benzene	Methyl tert-Butyl Ether (MTBE)	
n-Butylbenzene	n-Propylbenzene	2,4-Dimethylphenol
sec-Butylbenzene	Toluene	*bis(2-Ethylhexyl)phthalate*
tert-Butylbenzene	*1,1,2-Trichloroethane*	2-Methylnaphthalene
Chloroethane	1,2,4-Trimethylbenzene	*2-Methylphenol (o-Cresol)*
Ethylbenzene	1,3,5-Trimethylbenzene	3 & 4-Methylphenol (m & p-Cresol)
Isopropylbenzene	m,p-Xylene	Naphthalene
	o-Xylenes	Phenol
	Diethyl phthalate	

Fourteen of these 23 constituents were also detected during the 4th quarter 2010 groundwater sampling event. The newly detected constituents, indicated in italics in the list above, were present at low part per billion (ppb) levels. At least in some cases, these detections may be due to laboratory reporting limit differences, as Accutest Laboratories is now used for the testing. The analytical detections were compared with the TACO Class 1 Groundwater Quality Standards (GQS'), and the results of this comparison are presented in **Table 3**. Screening values were not available for the following analytes that were detected at concentrations above the reporting limits: sec-butylbenzene, tert-butylbenzene, chloroethane, and 1,2,4-trimethylbenzene.

The analytical results for benzene, ethylbenzene, MTBE, toluene, 1,3,5-trimethylbenzene, bis(2-ethylhexyl)phthalate, and phenol exceeded the respective groundwater screening criteria in one or more samples. The analytical results from these groundwater samples are shown on **Figure 4**.

These analytical results and extent of the dissolved phase plume are generally consistent with the results observed in the 4th quarter 2010. One exception to this was observed in the MW-6 well cluster. Benzene concentrations exceeded the screening criterion in wells MW-6A, -B, -C and –D. Benzene was not detected in samples from these wells in the 4th quarter 2010 (the first time these wells were sampled). This may be related to the loss of groundwater control at the WRR, however additional sampling events would be needed to establish a trend. As indicated by the contours on **Figure 3**, groundwater beneath the investigation area continues to be within the capture zone for WRR pumping.

URS conducted the interim groundwater monitoring, as required, for the 1st quarter 2011. The following conclusions are based on the data and information collected as part of this program.

- Groundwater analytical results and the areal extent of the dissolved-phase plume were generally consistent with the results of prior sampling events.
- COP continues to pump groundwater production wells near the west fenceline at the highest rates feasible. As a result, groundwater beneath the subject investigation area is within the capture zone of these production wells.
- LNAPL was observed in the ROST-4-PZ piezometer this quarter. A plan was submitted to IEPA on March 14, 2011 and implementation of this plan began at the end of 1st quarter 2011.

The monitoring wells sampled during the 1st quarter will continue to be gauged and sampled quarterly. The 2nd quarter report will also include additional items requested by the Agency (e.g., isoconcentration maps, etc).

Illinois Environmental Protection Agency (IEPA), 2010; (IEPA 2010); *Letter providing approval with comments the SOPUS 2010 Delineation Report*. Issued to Shell Oil Products US (SOPUS), dated August 5, 2010.

URS Corporation (URS), 2011 (URS, 2011a); *Groundwater Flow Control Notification letter*. Issued to IEPA, dated February 4, 2011.

URS Corporation (URS), 2011 (URS, 2011b); *Notification of Free Product Observation letter*. Issued to IEPA, dated February 7, 2011.

URS Corporation (URS), 2011 (URS, 2011c); *30-Day Report for Groundwater Flow Control*; dated March 4, 2011.

URS Corporation (URS), 2011 (URS, 2011d); *Additional Information regarding the 2/7/11 Notification of Free Product letter*. Issued to IEPA, dated March 14, 2011.

URS Corporation (URS), 2010 (URS, 2010a); *Route 111/Rand Avenue Vicinity Investigation Health and Safety Plan – Roxana, Illinois*; dated August 2010.

URS Corporation (URS), 2010 (URS, 2010b); *ConocoPhillips Environmental and Geotechnical Work 2010 Health and Safety Plan – WRB Refining LLC Wood River Refinery*; dated March 2010.

US Environmental Protection Agency (USEPA), 2008; *Contract Laboratory Program National Functional Guidelines for Organic Methods Data Review*

SEE LAST PAGE OF TABLE FOR NOTES.

TABLE 1
CUMULATIVE GROUNDWATER GAUGING RESULTS

WELL ID / QUARTER	TOP OF CASING (ft MSL)	DATE GAUGED	DEPTH TO PRODUCT (ft)	DEPTH TO WATER (Static)	WATER-PRODUCT INTERFACE (ft MSL)	PRODUCT ELEV. (ft MSL)	PRODUCT THICKNESS (ft)	CORRECTED W.L. ELEVATION (ft MSL)	COMMENTS
MW-1								Screened Interval Elevation: 399.45 - 384.45	
4Q10	442.86	11/12/2010	NE	36.91	NA	NA	NA	405.95	*
1Q11	442.86	1/13/2011	NE	37.58	NA	NA	NA	405.28	*
MW-2								Screened Interval Elevation: 396.74 - 381.74	
4Q10	443.93	11/12/2010	NE	38.12	NA	NA	NA	405.81	*
1Q11	443.93	1/13/2011	NE	38.67	NA	NA	NA	405.26	*
MW-3								Screened Interval Elevation: 399.38 - 384.38	
4Q10	430.36	11/12/2010	NE	24.05	NA	NA	NA	406.31	*
1Q11	430.36	1/13/2011	NE	24.92	NA	NA	NA	405.44	*
MW-4								Screened Interval Elevation: 398.95 - 383.95	
4Q10	441.58	11/12/2010	NE	35.38	NA	NA	NA	406.20	*
1Q11	441.58	1/13/2011	NE	36.04	NA	NA	NA	405.54	*
MW-5								Screened Interval Elevation: 398.60 - 383.60	
4Q10	429.73	11/12/2010	NE	23.32	NA	NA	NA	406.41	*
1Q11	429.73	1/13/2011	NE	24.15	NA	NA	NA	405.58	*
MW-6A								Screened Interval Elevation: 400.11 - 385.44	
4Q10	432.42	11/12/2010	NE	25.62	NA	NA	NA	406.80	*
1Q11	432.42	1/13/2011	NE	26.36	NA	NA	NA	406.06	*
MW-6B								Screened Interval Elevation: 368.24 - 363.24	
4Q10	432.29	11/12/2010	NE	25.47	NA	NA	NA	406.82	*
1Q11	432.29	1/13/2011	NE	26.21	NA	NA	NA	406.08	*
MW-6C								Screened Interval Elevation: 347.16 - 342.16	
4Q10	432.11	11/12/2010	NE	25.25	NA	NA	NA	406.86	*
1Q11	432.11	1/13/2011	NE	25.97	NA	NA	NA	406.14	*
MW-6D								Screened Interval Elevation: 327.27 - 322.27	
4Q10	431.99	11/12/2010	NE	25.13	NA	NA	NA	406.86	*
1Q11	431.99	1/13/2011	NE	25.87	NA	NA	NA	406.12	*
MW-7								Screened Interval Elevation: 400.18 - 390.18	
4Q10	443.10	11/12/2010	NE	36.93	NA	NA	NA	406.17	*
1Q11	443.10	1/13/2011	NE	37.52	NA	NA	NA	405.58	*
MW-8								Screened Interval Elevation: 400.51 - 390.51	
4Q10	434.11	11/12/2010	NE	27.84	NA	NA	NA	406.27	*
1Q11	434.11	1/13/2011	NE	28.59	NA	NA	NA	405.52	*
MW-9								Screened Interval Elevation: 398.75 - 388.75	
4Q10	445.20	11/12/2010	NE	39.00	NA	NA	NA	406.2	*
1Q11	445.20	1/13/2011	NE	39.62	NA	NA	NA	405.58	*
MW-10								Screened Interval Elevation: 400.60 - 390.60	
4Q10	445.03	11/12/2010	NE	38.97	NA	NA	NA	406.06	*
1Q11	445.03	1/13/2011	NE	39.40	NA	NA	NA	405.63	*
MW-11								Screened Interval Elevation: 400.67 - 390.67	
4Q10	442.33	11/12/2010	NE	36.39	NA	NA	NA	405.94	*
1Q11	442.33	1/13/2011	NE	37.15	NA	NA	NA	405.18	*
MW-12								Screened Interval Elevation: 400.68 - 390.68	
4Q10	442.60	11/12/2010	NE	36.63	NA	NA	NA	405.97	*
1Q11	442.60	1/13/2011	NE	37.42	NA	NA	NA	405.18	*

SEE LAST PAGE OF TABLE FOR NOTES.

TABLE 1
CUMULATIVE GROUNDWATER GAUGING RESULTS

WELL ID / QUARTER	TOP OF CASING (ft MSL)	DATE GAUGED	DEPTH TO PRODUCT (ft)	DEPTH TO WATER (Static)	WATER-PRODUCT INTERFACE (ft MSL)	PRODUCT ELEV. (ft MSL)	PRODUCT THICKNESS (ft)	CORRECTED W.L. ELEVATION (ft MSL)	COMMENTS
MW-13								Screened Interval Elevation: 405.22 - 395.22	
4Q10	NI	11/12/2010	NI	NI	NI	NI	NI	NI	Well not installed during gauging event.
1/Q11	430.27	1/13/2011	NE	24.28	NA	NA	NA	405.99	*
P-54								Screened Interval Elevation: 404.18 - 397.18	
4Q10	442.18	11/12/2010	NE	36.43	NA	NA	NA	405.75	*
1Q11	442.18	1/13/2011	NE	37.24	NA	NA	NA	404.94	*
P-60								Screened Interval Elevation: 398.61 - 378.61	
4Q10	446.57	11/11/2010	41.40	41.44	405.13	405.17	0.04	405.16	*
1Q11	446.57	1/14/2011	41.68	41.72	404.85	404.89	0.04	404.88	*
P-60-11								Screened Interval Elevation: 413.53 - 383.53	
4Q10	446.18	11/11/2010	NE	40.91	NA	NA	NA	405.27	
1Q11	446.18	1/14/2011	NE	41.14	NA	NA	NA	405.04	
P-93A								Screened Interval Elevation: 398.41 - 383.41	
4Q10	446.58	11/11/2010	NE	40.75	NA	NA	NA	405.83	*
1Q11	446.58	1/14/2011	NE	40.97	NA	NA	NA	405.61	*
P-93B								Screened Interval Elevation: 372.44 - 370.44	
4Q10	446.46	11/11/2010	NE	40.73	NA	NA	NA	405.73	*
1Q11	446.46	1/14/2011	NE	41.03	NA	NA	NA	405.43	*
P-93C								Screened Interval Elevation: 352.26 - 350.26	
4Q10	446.51	11/11/2010	NE	40.69	NA	NA	NA	405.82	*
1Q11	446.51	1/14/2011	NE	40.91	NA	NA	NA	405.60	*
P-93D								Screened Interval Elevation: 320.92 - 318.92	
4Q10	446.36	11/11/2010	NE	40.59	NA	NA	NA	405.77	*
1Q11	446.36	1/14/2011	NE	40.81	NA	NA	NA	405.55	*
GP-9-PZ								Screened Interval Elevation: 404.81 - 394.81	
4Q10	442.41	11/11/2010	NE	37.38	NA	NA	NA	405.03	*
1Q11	442.41	1/14/2011	NE	37.53	NA	NA	NA	404.88	*
P-60-12S								Screened Interval Elevation: 429.49 - 419.49	
4Q10	443.33	11/11/2010	NE	23.36	NA	NA	NA	419.97	
1Q11	443.33	1/14/2011	NE	NE	NA	NA	NA	NA	
P-60-12								Screened Interval Elevation: 383.31 - 373.31	
4Q10	443.31	11/11/2010	NE	38.19	NA	NA	NA	405.12	*
1Q11	443.31	1/14/2011	NE	38.51	NA	NA	NA	404.80	*
P-60-13S								Screened Interval Elevation: 432.39 - 422.39	
4Q10	442.39	11/11/2010	NE	13.36	NA	NA	NA	429.03	
1Q11	442.39	1/14/2011	NE	NE	NA	NA	NA	NA	
P-60-13								Screened Interval Elevation: 402.43 - 382.43	
4Q10	442.43	11/11/2010	37.50	37.87	404.56	404.93	0.37	404.83	*
1Q11	442.43	1/14/2011	37.73	37.74	404.69	404.70	0.01	404.70	*
ROST-3-PZ								Screened Interval Elevation: 402.29 - 392.29	
4Q10	442.29	11/12/2010	NE	36.60	NA	NA	NA	405.69	*
1Q11	442.29	1/13/2011	NE	37.29	NA	NA	NA	405.00	*
ROST-4-PZ								Screened Interval Elevation: 404.27 - 394.27	
4Q10	442.27	11/12/2010	NE	36.48	NA	NA	NA	405.79	*
1Q11	442.27	1/13/2011	NE	36.97	NA	NA	NA	405.30	*

SEE LAST PAGE OF TABLE FOR NOTES.

TABLE 1
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WELL ID / QUARTER	TOP OF CASING (ft MSL)	DATE GAUGED	DEPTH TO PRODUCT (ft)	DEPTH TO WATER (Static)	WATER-PRODUCT INTERFACE (ft MSL)	PRODUCT ELEV. (ft MSL)	PRODUCT THICKNESS (ft)	CORRECTED W.L. ELEVATION (ft MSL)	COMMENTS
ROST-5-PZ								Screened Interval Elevation: 429.02 - 419.02	
4Q10	442.22	11/12/2010	NE	NE	NA	NA	NA	NA	
1Q11	442.22	1/13/2011	NE	NE	NA	NA	NA	NA	
ROST-7-PZ								Screened Interval Elevation: 422.19 - 412.19	
4Q10	442.19	11/12/2010	NE	22.93	NA	NA	NA	419.26	
1Q11	442.19	1/13/2011	NE	23.74	NA	NA	NA	418.45	
ROST-10-PZ								Screened Interval Elevation: 434.51 - 424.51	
4Q10	444.51	11/12/2010	NE	NE	NA	NA	NA	NA	
1Q11	444.51	1/13/2011	NE	NE	NA	NA	NA	NA	
ROST-21-PZ								Screened Interval Elevation: 433.72 - 423.72	
4Q10	443.72	11/12/2010	NE	19.30	NA	NA	NA	424.42	
1Q11	443.72	1/13/2011	NE	19.59	NA	NA	NA	424.13	

NOTES:

1) The Corrected W.L. Elevations presented in this table were corrected by a specific gravity of 0.74 for the wells in which product was identified.

2) Elevations presented in this table are relative to the 1988 USGS datum.

3) **NA** = Not Applicable; **NE** = Not Encountered; **NM** = Not Measured; **NI** = Not Installed

4) * Indicates that the product and/or water level is above the top of the screened zone of the well.

SEE LAST PAGE OF TABLE FOR NOTES.

TABLE 2
SUMMARY OF CUMULATIVE GROUNDWATER FIELD PARAMETERS

Well ID	Depth to Water (ft btoc)	pH	Temp (C)	Specific Cond (mS/cm)	Turbidity (NTUs)	DO (mg/L)	ORP (Mv)	General Notes
MW-1								
4Q10	36.98	8.04	20.53	1.449	3.9	8.99	93	
1Q11	37.35	6.76	5.93	1.189	1.0	0.08	102	
MW-2								
4Q10	38.27	7.24	18.38	1.066	41.0	8.90	-113	
1Q11	38.26	6.72	15.19	2.048	8.0	0.97	-69	
MW-3								
4Q10	24.11	6.88	21.59	1.157	6.5	0.32	-146.0	
1Q11	24.77	6.88	731.00	2.349	2.0	0.26	-89.0	
MW-4								
4Q10	35.91	6.76	19.51	0.854	7.7	4.88	-59.0	
1Q11	38.89	6.83	10.24	2.352	9.6	0.86	-51.0	
MW-5								
4Q10	23.32	6.77	19.39	0.801	2.9	0.17	-112.0	
1Q11	24.06	6.82	9.51	2.051	2.8	0.95	-66	
MW-6A								
4Q10	25.57	6.74	21.87	1.535	5.4	0.01	-127.0	
1Q11	26.40	6.80	10.99	2.274	7.4	0.34	-75.0	
MW-6B								
4Q10	25.37	6.80	17.14	1.113	17.5	0.14	-77.0	
1Q11	26.23	6.73	15.90	2.138	1.4	0.22	-46.0	
MW-6C								
4Q10	25.12	6.86	17.87	1.132	5.5	0.16	-104.0	
1Q11	26.07	6.87	13.90	0.981	4.2	0.13	-66.0	
MW-6D								
4Q10	25.06	6.94	17.42	1.342	5.90	0.05	-112	
1Q11	26.01	7.05	13.66	1.330	1.30	0.14	-74	
MW-7								
4Q10	37.12	6.48	17.80	1.097	59.9	0.05	-32	
1Q11	37.58	6.53	14.40	1.869	3.2	0.74	-6	
MW-8								
4Q10	28.04	6.41	17.17	1.133	61.5	0.04	-54	
1Q11	28.70	6.37	16.21	2.065	18.0	0.80	-14	
MW-9								
4Q10	39.05	6.72	16.98	0.919	48.3	1.72	-45	
1Q11	39.65	6.73	12.97	1.524	17.2	0.03	-34	
MW-10								
4Q10	39.01	6.72	18.75	1.284	35.0	0.64	-78	
1Q11	39.38	6.72	13.08	1.344	4.3	0.35	-48	
MW-11								
4Q10	36.75	6.59	15.28	1.023	25.5	0.01	-76.0	
1Q11	37.24	6.59	14.34	1.276	8.8	0.05	-59.0	
MW-12								
4Q10	36.76	6.72	14.87	1.328	62.4	0.45	212.0	
1Q11	37.49	6.66	14.98	1.196	9.2	0.16	159.0	
MW-13								
4Q10	NI	NI	NI	NI	NI	NI	NI	Well not installed during sampling event.
1Q11	24.55	6.52	17.78	1.379	19.2	0.10	-82.0	

SEE LAST PAGE OF TABLE FOR NOTES.

TABLE 2
SUMMARY OF CUMULATIVE GROUNDWATER FIELD PARAMETERS

Well ID	Depth to Water (ft btoc)	pH	Temp (C)	Specific Cond (mS/cm)	Turbidity (NTUs)	DO (mg/L)	ORP (Mv)	General Notes
P-54								
4Q10	36.66	6.71	14.70	0.870	68.6	1.74	140.0	
1Q11	37.32	6.69	14.47	0.970	25.4	1.29	56.0	
P-93A								
4Q10	40.48	6.81	17.70	1.259	23.0	NM	NM	
1Q11	41.22	6.68	16.16	2.517	12.8	NM	NM	
P-93B								
4Q10	40.53	7.10	18.10	1.150	0.0	NM	NM	
1Q11	41.27	6.69	16.44	1.377	1.2	NM	NM	
P-93C								
4Q10	40.42	7.28	17.50	1.057	0.0	NM	NM	
1Q11	41.16	7.14	16.51	1.832	0.5	NM	NM	
P-93D								
4Q10	40.34	7.13	18.50	1.211	0.0	NM	NM	
1Q11	41.07	NM	NM	NM	NM	NM	NM	

NOTES:
1) Field parameters were collected using theTroll 9500 except at P-93(A-D) where the Oakton pH/Con10 and LaMotte Turbidimeter were used.
2) NM = Not Measured; NI = Not Installed

SEE LAST PAGE OF TABLE FOR NOTES.

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS AND EXCEEDANCES

					VOCs													
					Acetone	Benzene	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	Ethylbenzene	Hexachlorobutadiene	Isopropylbenzene	p-Isopropyltoluene
			Screening Values (mg/L)		6.3	0.005	0.35 *			0.005	0.1		0.0002		0.7	0.007 *	0.7 *	
Location	Sample ID	Sample Date	Depth to Water (ft btoc)	Product Thickness (ft)	ANALYTICAL RESULTS (mg/L)													
MW-01	MW-1-111110	11/11/2010	36.91	NE	<0.1	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005
	MW-1-111110-Dup	11/11/2010			<0.1	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005
	MW1-ROX-011711	1/17/2011	37.58	NE	<0.039 U	<0.0005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.001	<0.005	<0.005	<0.005
MW-02	MW-2-111010	11/11/2010	38.12	NE	<0.5	0.401	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05	<0.025	<0.05	0.641	<0.025	0.0236 J	<0.025
	MW2-ROX-011711	1/17/2011	38.67	NE	<0.005	0.294	0.0078	0.0047 J	<0.005	<0.001	<0.001	0.0077	<0.001	0.0019 J	0.74	<0.005	0.0617	0.0032 J
MW-03	MW-3-111210	11/12/2010	24.05	NE	<0.1	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	<0.005	0.0016 J	<0.005
	MW3-ROX-011811	1/18/2011	24.92	NE	<0.005	0.00056	<0.005	<0.005	<0.005	<0.001	<0.001	0.00077 J	<0.001	0.00082 J	0.00082 J	<0.005	<0.005	<0.005
MW-04	MW-4-111210	11/12/2010	35.38	NE	<0.1	0.0752	<0.005	0.001 J	<0.005	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	<0.005	0.00271 J	<0.005
	MW4-ROX-011811	1/18/2011	36.04	NE	<0.005	0.0567	0.0006 J	0.00063 J	0.00069 J	<0.001	<0.001	0.00096 J	<0.001	<0.002	<0.001	<0.005	0.002 J	<0.005
MW-05	MW-5-111210	11/12/2010	23.32	NE	<0.1	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005
	MW5-ROX-011811	1/18/2011	24.15	NE	<0.0344 U	0.0048	<0.005	<0.005	0.0014 J	<0.001	<0.001	<0.002	<0.001	<0.002	<0.001	<0.005	<0.005	<0.005
MW-06A	MW-6A-110910	11/9/2010	25.62	NE	<0.1	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005
	MW6A-ROX-011911	1/19/2011	26.36	NE	<0.0135 U	0.0113	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002 UJ	<0.001	<0.002	<0.001	<0.005	<0.005	<0.005
MW-06B	MW-6B-111610	11/16/2010	25.47	NE	<0.1	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005
	MW6B-ROX-011911	1/19/2011	26.21	NE	<0.005	0.0082	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.001	<0.005	<0.005	<0.005
	MW6B-ROX-011911-DUP	1/19/2011			<0.005	0.0082	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.001	0.0014 J	<0.005	<0.005
MW-06C	MW-6C-111610	11/16/2010	25.25	NE	<0.1	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005
	MW6C-ROX-012111	1/21/2011	25.97	NE	<0.005	0.0085	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.001	<0.005	<0.005	<0.005
MW-06D	MW-6D-111610	11/16/2010	25.13	NE	<0.1	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005
	MW6D-ROX-012111	1/21/2011	25.87	NE	<0.005	0.0104	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.001	<0.005	<0.005	<0.005
MW-07	MW-7-111710	11/17/2010	36.93	NE	<25	928 D	<1.25	<1.25	<1.25	<1.25	<1.25	<2.5	<1.25	<2.5	<1.25	<1.25	<1.25	<1.25
	MW-7-111710-Dup	11/17/2010			<25	876 D	<1.25	<1.25	<1.25	<1.25	<1.25	<2.5	<1.25	<2.5	<1.25	<1.25	<1.25	<1.25
	MW7-ROX-012511	1/25/2011	37.52	NE	<0.005 UJ	1150 J	0.0015 J J	0.0011 J J	0.0012 J J	<0.001 UJ	<0.001 UJ	<0.002 UJ	<0.001 UJ	<0.002 UJ	0.0325 J	<0.005 UJ	0.004 J J	<0.005 UJ
MW-08	MW-8-111710	11/17/2010	27.84	NE	<25	965 D	<1.25	<1.25	<1.25	<1.25	<1.25	<2.5	<1.25	<2.5	<1.25	<1.25	<1.25	<1.25
	MW8-ROX-012511	1/25/2011	28.59	NE	<0.0469 U	986	0.0021 J J	0.0014 J J	<0.005 UJ	<0.001 UJ	<0.001 UJ	<0.002 UJ	<0.001 UJ	<0.002 UJ	0.234 J	<0.005 UJ	0.0104 J	0.0012 J J
	MW8-ROX-012511-DUP	1/25/2011			<0.0403 U	1030	0.002 J J	0.0014 J J	0.0011 J J	<0.001 UJ	<0.001 UJ	<0.002 UJ	<0.001 UJ	<0.002 UJ	0.237 J	<0.005 UJ	0.0105 J	0.001 J J
MW-09	MW-9-111510	11/15/2010	39.00	NE	<0.1	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005
	MW9-ROX-012111	1/21/2011	39.62	NE	<0.005	0.0037	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.001	<0.005	<0.005	<0.005
MW-10	MW-10-111010	11/10/2010	38.97	NE	<0.1	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005
	MW10-ROX-012411	1/24/2011	39.40	NE	<0.0122 U	<0.0005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.001	<0.005	<0.005	<0.005
	MW10-ROX-012411-DUP	1/24/2011			<0.005	<0.0005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.001	<0.005	<0.005	<0.005
MW-11	MW-11-111710	11/17/2010	36.39	NE	<0.1	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005
	MW11-ROX-012411	1/24/2011	37.15	NE	<0.005	<0.0005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.001	<0.005	<0.005	<0.005
MW-12	MW-12-111510	11/15/2010	36.63	NE	<0.1	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	0.00161 J	<0.01	<0.005	<0.005	<0.005	<0.005
	MW12-ROX-012411	1/24/2011	37.42	NE	<0.005	<0.0005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.001	<0.005	<0.005	<0.005
MW-13	NI	4Q10	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
	MW13-ROX-012511	1/25/2011	24.28	NE	<0.005	<0.0005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.001	<0.005	<0.005	<0.005
P-54	P-54-111710	11/17/2010	36.43	NE	<0.1	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005
	P54-ROX-012411	1/24/2011	37.24	NE	<0.0048 U	<0.00039 U	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.001	<0.005	<0.005	<0.005
P-93A	P93A-102610	10/26/2010	40.75	NE	<25	422 D	<1.25	<1.25	<1.25	<1.25	<1.25	<2.5	<1.25	<2.5	0.32 J	<1.25	<1.25	<1.25
	P93A-ROX_012611	1/26/2011	40.97	NE	<0.005	491	0.0059	0.0096	0.0213	0.00081 J	0.00061 J	<0.002	<0.001	<0.002	0.373	0.0016 J	0.0225	0.0047 J
P-93B	P93B-102610	10/26/2010	40.73	NE	<10	189 D	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5
	P93B-ROX_012611	1/26/2011	41.03	NE	<0.005	105	<0.005	<0.005	0.00058 J	<0.001	<0.001	0.00077 J	<0.001	0.0014 J	0.0104	<0.005	0.0108	<0.005
P-93C	P93C-102610	10/26/2010	40.69	NE	<0.1	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005
	P93C-ROX_012611	1/26/2011	40.91	NE	<0.005	86.5	<0.005	<0.005	0.00056 J	<0.001	<0.001	<0.002	<0.001	<0.002	0.0175	<0.005	0.0019 J	<0.005
P-93D	P93D-102610	10/26/2010	40.59	NE	<0.1	0.0429	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005
	NS	1Q11	40.81	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

SEE LAST PAGE OF TABLE FOR NOTES.

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS AND EXCEEDANCES

			VOC										SVOCs					
			Methyl tert-Butyl Ether (MTBE)	n-Propylbenzene	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,2-Trichloroethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	m,p-Xylene	o-Xylenes	Benzoic Acid	Diethyl phthalate	Di-n-butyl phthalate	Di-n-octyl phthalate	2,4-Dimethylphenol	bis(2-Ethylhexyl)phthalate
			0.07	0.7 *	1	0.0056 *	0.07	0.005		0.07 *	10		28	5.6		0.14	0.14	0.006
Location	Sample ID	Sample Date	ANALYTICAL RESULTS (mg/L)															
MW-01	MW-1-111110	11/11/2010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.048	<0.01	<0.01	<0.01	<0.01	<0.01
	MW-1-111110-Dup	11/11/2010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.049	<0.01	<0.01	<0.01	<0.01	<0.01
	MW1-ROX-011711	1/17/2011	0.0032	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	0.0013	<0.013	<0.0063	<0.0063	<0.0063	<0.013	<0.0025
MW-02	MW-2-111010	11/11/2010	<0.025	0.0354	1.22 D	<0.025	<0.025	<0.025	0.273	0.0618	1.14	0.318	<0.048	<0.01	<0.01	<0.01	<0.01	<0.003 U
	MW2-ROX-011711	1/17/2011	<0.001	0.0652	0.737	<0.005	<0.005	<0.001	0.279	0.0744	0.892	0.191	0.0082 J	<0.0048	<0.0048	<0.0048	0.0022 J	0.25
MW-03	MW-3-111210	11/12/2010	<0.005	0.00622	0.00257 J	<0.005	<0.005	<0.005	<0.005	<0.005	0.00653 J	<0.005	<0.048	<0.01	<0.01	<0.01	<0.01	<0.01
	MW3-ROX-011811	1/18/2011	0.0021	<0.005	<0.001	<0.005	<0.005	<0.001	0.00085 J	<0.005	0.0012	0.0014	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.00062 J
MW-04	MW-4-111210	11/12/2010	0.00508	0.00395 J	0.0157	<0.005	<0.005	<0.005	<0.005	<0.005	0.00699 J	0.00139 J	<0.047	<0.009	<0.009	<0.009	<0.009	<0.009
	MW4-ROX-011811	1/18/2011	0.007	0.0022 J	0.0071	<0.005	<0.005	<0.001	<0.005	<0.005	0.0062	0.0021	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.0021
MW-05	MW-5-111210	11/12/2010	0.00556	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.00277 J	<0.005	<0.048	<0.01	<0.01	<0.01	<0.01	<0.01
	MW5-ROX-011811	1/18/2011	0.0066	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	0.00087 J	0.0014	<0.011	0.0009 J	<0.0053	<0.0053	<0.011	<0.0021
MW-06A	MW-6A-110910	11/9/2010	0.0203	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.048	<0.01	<0.01	<0.01	<0.01	<0.01
	MW6A-ROX-011911	1/19/2011	0.0181	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001	0.0044 J J	<0.0019 U	0.00081 J	<0.005	<0.01	<0.002
MW-06B	MW-6B-111610	11/16/2010	0.00204 J	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01
	MW6B-ROX-011911	1/19/2011	0.0016	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001	<0.01 UJ	<0.00087 U	<0.005	<0.005	<0.01	<0.002
	MW6B-ROX-011911-DUP	1/19/2011	0.0016	<0.005	<0.001	0.0016 J	0.0011 J	<0.001	<0.005	<0.005	<0.001	<0.001	<0.01 UJ	<0.001 U	<0.0051	<0.0051	<0.01	<0.002
MW-06C	MW-6C-111610	11/16/2010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01
	MW6C-ROX-012111	1/21/2011	0.0021	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001	<0.011 UJ	<0.00084 U	<0.0053	<0.0053	<0.011	<0.0021
MW-06D	MW-6D-111610	11/16/2010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.051	<0.01	<0.01	<0.01	<0.01	<0.01
	MW6D-ROX-012111	1/21/2011	<0.001	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001	<0.011 UJ	<0.001 U	0.00071 J	<0.0053	<0.011	<0.0021
MW-07	MW-7-111710	11/17/2010	<1.25	<1.25	<1.25	<1.25	<1.25	<1.25	<1.25	<1.25	<2.5	<1.25	<0.048	<0.01	<0.01	<0.01	<0.01	<0.005 U
	MW-7-111710-Dup	11/17/2010	<1.25	<1.25	<1.25	<1.25	<1.25	<1.25	<1.25	<1.25	<2.5	<1.25	<0.05	<0.01	<0.01	<0.01	<0.01	<0.007 U
	MW7-ROX-012511	1/25/2011	<0.0057 U	0.0058 J	0.0907 J	<0.005 UJ	<0.005 UJ	<0.001 UJ	0.0552 J	0.0133 J	0.0694 J	0.0235 J	<0.011	<0.003 U	<0.0053	<0.0053	<0.011	<0.0021
MW-08	MW-8-111710	11/17/2010	<1.25	<1.25	0.328 J	<1.25	<1.25	<1.25	<1.25	<1.25	<2.5	<1.25	<0.048	<0.01	<0.01	<0.01	0.018	<0.006 U
	MW8-ROX-012511	1/25/2011	0.21 J	0.0173 J	1.2 E J	<0.005 UJ	<0.005 UJ	<0.001 UJ	0.109 J	0.0332 J	0.499 J	0.188 J	<0.01	<0.0025 U	<0.005	0.0004 J	0.0233	0.00086 J
	MW8-ROX-012511-DUP	1/25/2011	0.205 J	0.017 J	1.12 E J	<0.005 UJ	<0.005 UJ	<0.001 UJ	0.11 J	0.0336 J	0.518 J	0.191 J	<0.011	0.0125	<0.0057	<0.0057	0.0299	0.0012 J
MW-09	MW-9-111510	11/15/2010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.048	<0.01	<0.01	<0.01	<0.01	<0.001 U
	MW9-ROX-012111	1/21/2011	<0.001	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001	<0.011 UJ	<0.001 U	0.00064 J	<0.0053	<0.011	<0.0021
MW-10	MW-10-111010	11/10/2010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.048	<0.01	<0.01	<0.01	<0.01	<0.01
	MW10-ROX-012411	1/24/2011	<0.001	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001	<0.01	<0.001 U	<0.0051	<0.0051	<0.01	0.00068 J
	MW10-ROX-012411-DUP	1/24/2011	<0.001	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001	<0.01	<0.0012 U	<0.005	<0.005	<0.01	0.00071 J
MW-11	MW-11-111710	11/17/2010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.048	<0.01	<0.01	<0.01	<0.01	<0.003 U
	MW11-ROX-012411	1/24/2011	<0.001	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001	<0.01	<0.001 U	<0.0052	<0.0052	<0.01	0.00073 J
MW-12	MW-12-111510	11/15/2010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.048	<0.01	<0.01	<0.01	<0.01	<0.003 U
	MW12-ROX-012411	1/24/2011	<0.001	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001	<0.01	<0.00077 U	<0.005	<0.005	<0.01	<0.002
MW-13	NI	4Q10	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
	MW13-ROX-012511	1/25/2011	<0.001	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001	<0.01	<0.0027 U	<0.0052	<0.0052	<0.01	<0.0021
P-54	P-54-111710	11/17/2010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.048	<0.01	<0.01	<0.01	<0.01	<0.003 U
	P54-ROX-012411	1/24/2011	<0.001	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001	<0.01	<0.002 U	<0.005	<0.005	<0.01	<0.002
P-93A	P93A-102610	10/26/2010	<1.25	<1.25	<1.25	<1.25	<1.25	<1.25	<1.25	<1.25	0.543 J	<1.25	<0.047	<0.009	<0.009	<0.009	<0.009	<0.009
	P93A-ROX_012611	1/26/2011	0.124	0.0254	0.0654	0.0026 J	0.0015 J	0.0017	0.21	0.045	0.622	0.0705	<0.0098 UJ	<0.0014 U	<0.0049	<0.0049	<0.0098	<0.002
P-93B	P93B-102610	10/26/2010	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.047	<0.009	<0.009	<0.009	<0.009	<0.009
	P93B-ROX_012611	1/26/2011	0.0088	0.011	0.0321	<0.005	<0.005	<0.001	0.0052	0.0016 J	0.0555	0.0092	<0.011 UJ	<0.00086 U	<0.0053	<0.0053	<0.011	<0.0021
P-93C	P93C-102610	10/26/2010	0.00136 J	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.047	<0.009	<0.009	<0.009	<0.009	<0.001 U
	P93C-ROX_012611	1/26/2011	0.0014	0.0013 J	0.0067	<0.005	<0.005	<0.001	0.0025 J	<0.005	0.0051	0.0035	<0.01 UJ	<0.00097 U	<0.0051	<0.0051	<0.01	<0.002
P-93D	P93D-102610	10/26/2010	0.0122	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.048	<0.01	<0.01	<0.01	<0.01	<0.01
	NS	1Q11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

SEE LAST PAGE OF TABLE FOR NOTES.

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS AND EXCEEDANCES

			SVOC								
			Fluorene	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	3 & 4-Methylphenol (m & p-Cresol)	Naphthalene	3-Nitroaniline	Phenanthrene	Phenol	Pyrene
			0.28	0.028 *	0.35	0.35&0.7 *	0.14		0.21 *	0.1	0.21
Location	**Sample ID**	**Sample Date**	**ANALYTICAL RESULTS (mg/L)**								
MW-01	MW-1-111110	11/11/2010	<0.01	<0.01	<0.01	<0.01	<0.01	<0.019	<0.01	<0.01	<0.01
	MW-1-111110-Dup	11/11/2010	<0.01	<0.01	<0.01	<0.01	<0.01	<0.019	<0.01	<0.01	<0.01
	MW1-ROX-011711	1/17/2011	<0.0063	<0.0063	<0.013	<0.013	<0.0063	<0.013	<0.0063	<0.0063	<0.0063
MW-02	MW-2-111010	11/11/2010	<0.01	0.014	<0.01	0.007 J	0.077	<0.019	<0.01	0.006 J	<0.01
	MW2-ROX-011711	1/17/2011	<0.0048	0.0065	0.0028 J	0.0035 J	0.0312	<0.0095	<0.0048	<0.0048	<0.0048
MW-03	MW-3-111210	11/12/2010	<0.01	<0.01	<0.01	<0.01	<0.01	<0.019	<0.01	<0.01	<0.01
	MW3-ROX-011811	1/18/2011	<0.0053	<0.0053	<0.011	<0.011	<0.0053	<0.011	<0.0053	<0.0053	<0.0053
MW-04	MW-4-111210	11/12/2010	<0.009	<0.009	<0.009	<0.009	<0.009	<0.019	<0.009	<0.009	<0.009
	MW4-ROX-011811	1/18/2011	<0.0052	<0.0052	<0.01	<0.01	<0.0052	<0.01	<0.0052	<0.0052	<0.0052
MW-05	MW-5-111210	11/12/2010	<0.01	<0.01	<0.01	<0.01	<0.01	<0.019	<0.01	<0.01	<0.01
	MW5-ROX-011811	1/18/2011	<0.0053	<0.0053	<0.011	<0.011	<0.0053	<0.011	<0.0053	<0.0053	<0.0053
MW-06A	MW-6A-110910	11/9/2010	<0.01	<0.01	<0.01	<0.01	<0.01	<0.019	<0.01	<0.01	<0.01
	MW6A-ROX-011911	1/19/2011	<0.005	<0.005	<0.01	<0.01	<0.005	<0.01	<0.005	<0.005	<0.005
MW-06B	MW-6B-111610	11/16/2010	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02	<0.01	<0.01	<0.01
	MW6B-ROX-011911	1/19/2011	<0.005	<0.005	<0.01	<0.01	<0.005	<0.01	<0.005	<0.005	<0.005
	MW6B-ROX-011911-DUP	1/19/2011	<0.0051	<0.0051	<0.01	<0.01	<0.0051	<0.01	<0.0051	<0.0051	<0.0051
MW-06C	MW-6C-111610	11/16/2010	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02	<0.01	<0.01	<0.01
	MW6C-ROX-012111	1/21/2011	<0.0053	<0.0053	<0.011	<0.011	<0.0053	<0.011	<0.0053	<0.0053	<0.0053
MW-06D	MW-6D-111610	11/16/2010	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02	<0.01	<0.01	<0.01
	MW6D-ROX-012111	1/21/2011	<0.0053	<0.0053	<0.011	<0.011	<0.0053	<0.011	<0.0053	<0.0053	<0.0053
MW-07	MW-7-111710	11/17/2010	<0.01	<0.01	<0.01	<0.01	0.004 J	<0.019	<0.01	0.034	<0.01
	MW-7-111710-Dup	11/17/2010	<0.01	<0.01	<0.01	<0.01	0.005 J	<0.02	<0.01	0.032	<0.01
	MW7-ROX-012511	1/25/2011	<0.0053	0.0023 J	<0.011	0.00099 J	0.0058	<0.011	<0.0053	0.0737	<0.0053
MW-08	MW-8-111710	11/17/2010	<0.01	0.005 J	<0.01	0.023	0.023	<0.019	<0.01	0.053	<0.01
	MW8-ROX-012511	1/25/2011	<0.005	0.0069	0.0195	0.0502	0.026	<0.01	<0.005	0.119 J	<0.005
	MW8-ROX-012511-DUP	1/25/2011	<0.0057	0.0075	0.0228	0.0587	0.0288	<0.011	<0.0057	0.171 J	<0.0057
MW-09	MW-9-111510	11/15/2010	<0.01	<0.01	<0.01	<0.01	<0.01	<0.019	<0.01	<0.01	<0.01
	MW9-ROX-012111	1/21/2011	<0.0053	<0.0053	<0.011	<0.011	<0.0053	<0.011	<0.0053	<0.0053	<0.0053
MW-10	MW-10-111010	11/10/2010	<0.01	<0.01	<0.01	<0.01	<0.01	<0.019	<0.01	<0.01	<0.01
	MW10-ROX-012411	1/24/2011	<0.0051	<0.0051	<0.01	<0.01	<0.0051	<0.01	<0.0051	<0.0051	<0.0051
	MW10-ROX-012411-DUP	1/24/2011	<0.005	<0.005	<0.01	<0.01	<0.005	<0.01	<0.005	<0.005	<0.005
MW-11	MW-11-111710	11/17/2010	<0.01	<0.01	<0.01	<0.01	<0.01	<0.019	<0.01	<0.01	<0.01
	MW11-ROX-012411	1/24/2011	<0.0052	<0.0052	<0.01	<0.01	<0.0052	<0.01	<0.0052	<0.0052	<0.0052
MW-12	MW-12-111510	11/15/2010	<0.01	<0.01	<0.01	<0.01	<0.01	<0.019	<0.01	<0.01	<0.01
	MW12-ROX-012411	1/24/2011	<0.005	<0.005	<0.01	<0.01	<0.005	<0.01	<0.005	<0.005	<0.005
MW-13	NI	4Q10	NI	NI	NI	NI	NI	NI	NI	NI	NI
	MW13-ROX-012511	1/25/2011	0.00044 J	0.0021 J	<0.01	<0.01	<0.0052	<0.01	0.0012 J	<0.0052	0.00032 J
P-54	P-54-111710	11/17/2010	<0.01	<0.01	<0.01	<0.01	<0.01	<0.019	<0.01	<0.01	<0.01
	P54-ROX-012411	1/24/2011	<0.005	<0.005	<0.01	<0.01	<0.005	<0.01	<0.005	<0.005	<0.005
P-93A	P93A-102610	10/26/2010	<0.009	0.023	<0.009	<0.009	0.095 D	<0.019	<0.009	0.31 D J	<0.009
	P93A-ROX_012611	1/26/2011	0.00032 J	0.0254	<0.0098	0.064	0.0803	<0.0098 UJ	0.0004 J	0.172	<0.0049
P-93B	P93B-102610	10/26/2010	<0.009	<0.009	<0.009	<0.009	<0.009	<0.019	<0.009	0.094	<0.009
	P93B-ROX_012611	1/26/2011	<0.0053	<0.0053	<0.011	<0.011	0.0011 J	0.00069 J J	<0.0053	0.106	<0.0053
P-93C	P93C-102610	10/26/2010	<0.009	<0.009	<0.009	<0.009	<0.009	<0.019	<0.009	<0.009	<0.009
	P93C-ROX_012611	1/26/2011	<0.0051	<0.0051	<0.01	<0.01	<0.0051	<0.01 UJ	<0.0051	0.0166	<0.0051
P-93D	P93D-102610	10/26/2010	<0.01	<0.01	<0.01	<0.01	<0.01	<0.019	<0.01	<0.01	<0.01
	NS	1Q11	NS	NS	NS	NS	NS	NS	NS	NS	NS

NOTES:

1) Analytical results screened to the Illinois Tiered Approach to Corrective Action Objectives (TACO), 35 IAC Part 742, and Groundwater Remediation Objectives for Chemicals not listed in TACO (*).
2) "< ##" denotes that the analytical constituent was not detected at the indicated reporting limit.
3) NE = Not Encountered; NI = Not Installed; NS = Not Sampled
4) Xenco Laboratories was used during 4Q10. Accutest was used starting in 1Q11.

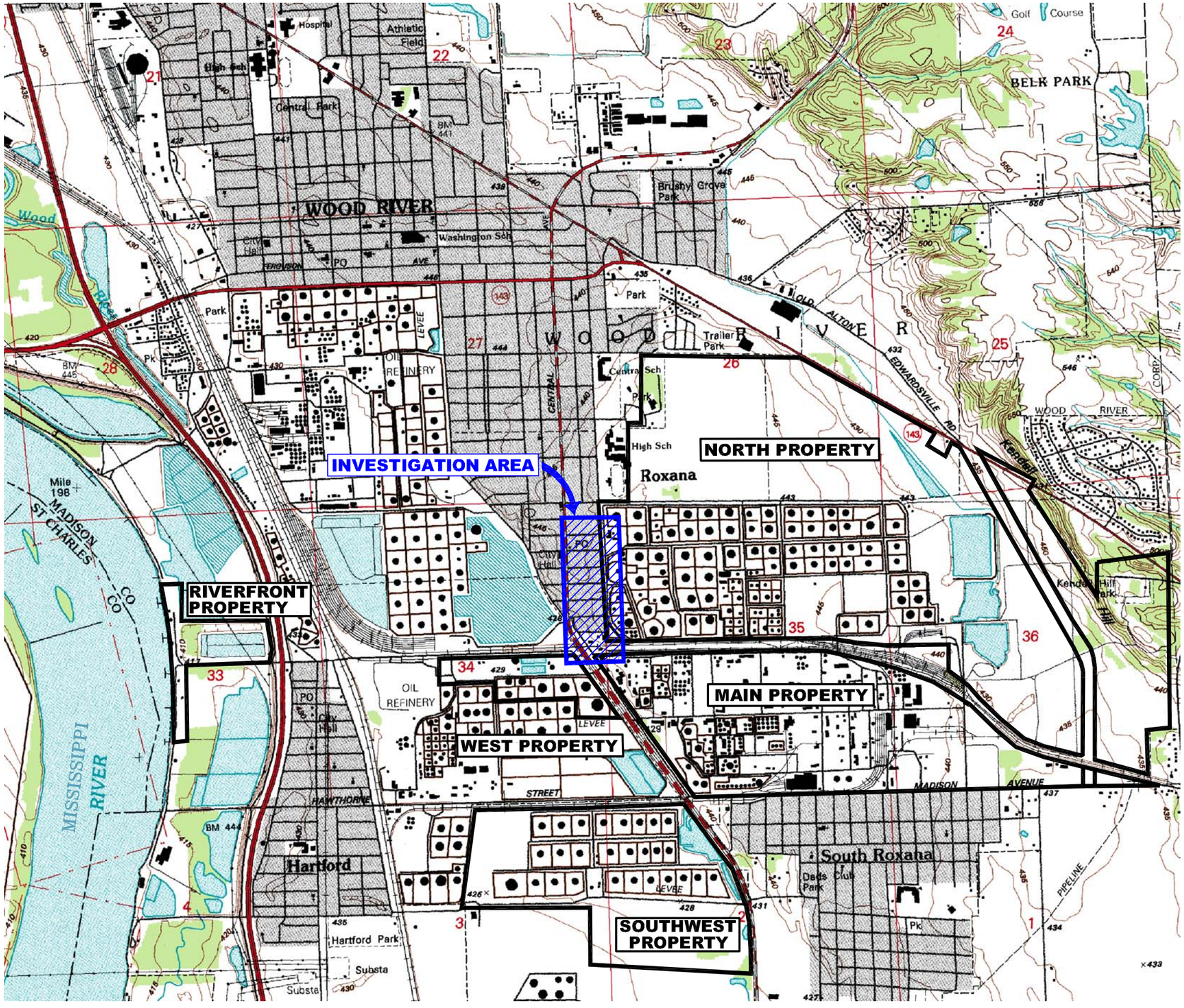
Exceedances of the screening criteria are highlighted in yellow above.

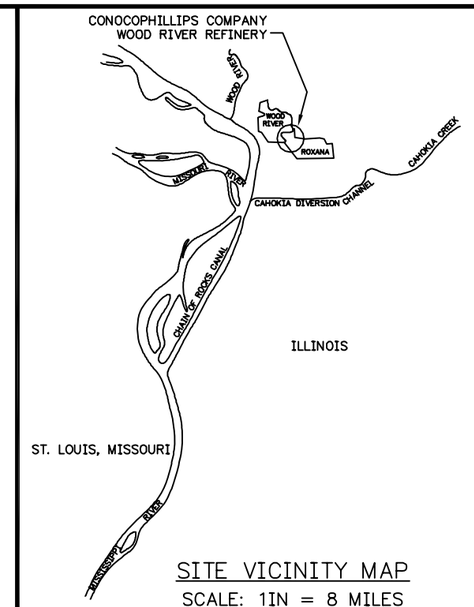
LABORATORY QUALIFIERS:

D = The result is from a diluted sample
J = The analyte was detected below the reporting limit. Result is estimated.

URS QUALIFIERS:

J = The results is estimated
UJ = Estimated nondetect
U = Result is non-detect.





SITE VICINITY MAP
SCALE: 1IN = 8 MILES

LEGEND

WOOD RIVER REFINERY PROPERTY BOUNDARY

INVESTIGATION AREA

SOURCE: MAP TAKEN FROM ELECTRONIC USGS DIGITAL RASTER GRAPHIC 7.5 MINUTE TOPOGRAPHIC MAP OF WOOD RIVER, ILL–MO REVISED 1994.

CONTOUR INTERVAL = 5 FT

Ø 2000

SCALE FEET

N

SHELL OIL PRODUCTS US FIRST QUARTER 2011 GROUNDWATER EVENT ROXANA, ILLINOIS	PROJECT NO. 21562593
URS	
DRN. BY: djd April 2011 DSGN. BY: djd CHKD. BY: wmp	Investigation Area Location Map FIG. NO. 1

File: P:\ENVIRONMENTAL\SHELL OIL PRODUCT US\B-ROXANA-ROUTE 111\21562XXX-ROXANA INVESTIGATION & ASSESSMENT\QUARTERLY GW\2011\1ST QUARTER 2011\FIGURES\FIGURE 1 INVESTIGATION AREA LOCATION MAP.DWG Last edited: 04/08/11 ● 1:11 p.m. ● WCC-ST.LOUIS

File: P:\ENVIRONMENTAL\SHELL OIL PRODUCT US\B-ROXANA-ROUTE 111\2156XXXX_ROXANA INVESTIGATION & ASSESSMENT\QUARTERLY GW\2011\1ST QUARTER 2011\FIGURES\FIGURE 2 GROUNDWATER SAMPLING LOCATIONS.DWG Last edited: APR. 08, 11 @ 1:01 p.m. by: david_deguire

LEGEND

- GROUNDWATER SAMPLING LOCATION
- MONITORING WELLL LOCATION NOT SAMPLED
- PIEZOMETER LOCATION

NOTE:
MONITORING WELL MW-6 WAS REASSIGNED IDENTIFICATION NUMBER MW-6A.

FIRST ST
SECOND ST
THIRD ST
FOURTH ST
FIFTH ST
SIXTH ST
SEVENTH ST
EIGHTH ST
(S. CENTRAL AVE) HIGHWAY 111
CHAEFER ST
RAND AVENUE
VILLAGE OF ROXANA
NORTH PROPERTY
WOOD RIVER REFINERY
WEST PROPERTY
BP
1986 APPROXIMATE BENZENE RELEASE SITE

PZ-1(101)
PZ-1(85)
MW-9
MW-10
ROST-4-PZ
ROST-3-PZ
MW-11
P-54
ROST-5-PZ
ROST-7-PZ
ROST-21-PZ
PZ-2(84)
PZ-2(70.5)
MW-12
ROST-10-PZ
MW-2
MW-1
MW-3
MW-4
MW-5
MW-7
MW-8
MW-13
MW-6A
MW-6B
MW-6C
MW-6D
P-93A
P-93B
P-93C
P-93D

T-1
P-55
P-60-11
P-60
P-60-12
P-60-12S
P-60-13
P-60-13S
P-68
A-28
T-24
A-33
T-12
P-69
A-27
P-70
P-74
P-59
P-61
GP-9-PZ
P-56
T-6
P-57
P-73
P-58
P-66
P-75
P-114

SHELL OIL PRODUCTS US
FIRST QUARTER 2011 GROUNDWATER EVENT
ROXANA, ILLINOIS

PROJECT NO. 21562593

URS

DRN. BY: djd April 2011
DSGN. BY: djd
CHKD. BY: tja

Groundwater Sampling Locations

FIG. NO. 2

0 200
SCALE FEET
N

NOTES:

1) WATER LEVELS WERE OBTAINED DURING THE FIRST QUARTER 2010 GAUGING EVENT ON JANUARY 13-14 AND 20, 2011.

2) CONTOUR LINES PRIMARILY GENERATED BY SURFER VERSION 8 MODELING OF GROUNDWATER ELEVATIONS. SOME INTERPRETATION WAS DONE UTILITZING PROFESSIONAL JUDGMENT AND CONTOUR LINES WERE MODIFIED BY HAND.

3) PRODUCT WAS IDENTIFIED IN MONITORING WELLS P-60 (0.04 FT*), P-61 (0.13 FT*), P-62 (1.42 FT*), P-67 (0.03 FT*), P-68 (4.03 FT*), P-69 (0.01 FT*), P-70 (0.42 FT*), P-72 (0.01 FT*), P-75 (0.39 FT*), S-1 (4.92 FT**), T-7 (0.13 FT*), T-24 (0.32 FT*), AND IN PIEZOMETER P-60-13 (0.01 FT*). THE ELEVATIONS PRESENTED ON THIS FIGURE WERE CORRECTED BY A SPECIFIC GRAVITY OF 0.74 FOR THESE WELLS.

4) ELEVATIONS ARE RELATIVE TO 1988 USGS DATUM.

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* INDICATES THAT THE PRODUCT AND/OR WATER LEVEL IS ABOVE THE TOP OF THE WELL SCREEN.

** SCREENED INTERVAL INFORMATION IS NOT AVAILABLE FOR THIS WELL.

LEGEND

- PIEZOMETER OR MONITORING WELL LOCATION GAUGED (USED FOR CONTOURING)
- PIEZOMETER OR MONITORING WELL LOCATION NOT USED FOR CONTOURING
- GROUNDWATER PRODUCTION WELL LOCATION
- 406 — GROUNDWATER ELEVATION CONTOUR, 0.5 FOOT CONTOUR INTERVAL
- GROUNDWATER FLOW DIRECTION

TYDEMAN AVE
FIRST ST
SECOND ST
THIRD ST
FOURTH ST
FIFTH ST
SIXTH ST
SEVENTH ST
EIGHTH ST
RAND AVENUE
CHAFFER ST
(S. CENTRAL AVE) HIGHWAY 111
VILLAGE OF ROXANA
VILLAGE
BP
WEST PROPERTY
NORTH PROPERTY
WOOD RIVER REFINERY

T-13 405.89*
T-1
MW-9 405.58*
MW-10 405.63*
T-2 406.16*
P-55 405.39
ROST-4-PZ 405.30*
ROST-3-PZ 405.00*
P-60-11 405.04
P-60-12S
P-60-12 404.80*
W-77
A-28
T-24 405.05*
P-60 404.88*
P-60-13S
P-60-13 404.70*
P-68 405.12*
P-54 404.94*
MW-11 405.18*
ROST-5-PZ
T-12 404.19*
P-69 404.56*
A-33
P-62 405.56*
ROST-7-PZ
W-85
A-27
P-70 405.27*
P-74 404.69*
P-61 405.43*
P-59 404.62*
W-78
ROST-21-PZ
GP-9-PZ 404.88*
MW-12 405.18*
ROST-10-PZ
P-56 404.99
W-79
MW-2 405.54*
MW-1 405.44*
S-1 406.40**
P-71 406.51*
T-6 405.48*
W-80
P-57 405.49
P-73 405.66*
MW-3 405.44*
MW-4 405.54*
P-93A 405.61*
P-93B
P-93C
P-93D
MW-5 405.58*
MW-7 405.58*
P-72 406.77*
MW-8 405.52*
P-58 405.82*
MW-13 405.99*
406.06* MW-6A
MW-6B
MW-6C
MW-6D
P-66 406.00*
P-75 406.21*
W-81
P-117 405.05*
P-114 405.57*
P-116 405.10*
P-115 405.43*
P-119 406.28*
P-67 407.37*
T-7 407.24*
T-63 405.79
T-62 406.25
405
406
407

N

0 300

SCALE FEET

SHELL OIL PRODUCTS US FIRST QUARTER 2011 GROUNDWATER EVENT ROXANA, ILLINOIS	PROJECT NO. 21562593
URS	
DRN. BY: wmp April 2011 DSGN. BY: wmp CHKD. BY: tja & b3	Groundwater Contours First Quarter 2011
	FIG. NO. 3

LEGEND

- GROUNDWATER MONITORING WELL LOCATION
- MONITORING WELL LOCATION (NOT SAMPLED)

NOTES:

1. THE ANALYTES LISTED IN THE BOXES ARE THOSE WITH CONCENTRATIONS THAT EXCEEDED THE INDICATED SCREENING CRITERIA IN THE 1Q11 AND OR 4Q1Ø SAMPLING EVENTS.
2. SCREENING CRITERIA TAKEN FROM ILLINOIS TIERED APPROACH TO CORRECTIVE ACTION OBJECTIVES (TACO), 35 IAC PART 742. INDICATES AN EXCEEDANCE OF THE GROUNDWATER CLASS I SCREENING CRITERIA.

Analyte	Screening Criteria (mg/L)
Benzene	0.005
Chloroform	0.0002
Ethylbenzene	0.7
MTBE	0.07
Toluene	1
1,3,5-Trimethylbenzene	0.07
bis(2-Ethylhexyl) phthalate	0.006
Phenol	0.1

3. LABORATORY QUALIFIERS:
   J = THE TARGET ANALYTE WAS DETECTED BELOW THE REPORTING LIMIT AND THE RESULT IS ESTIMATED.
   E = THE VALUE EXCEEDS CALIBRATION RANGE.
   UJ = ESTIMATED NON DETECT AT THE REPORTING LIMIT INDICATED.
4. ON Ø1/26/11, P-93D WAS DETERMINED TO BE COMPROMISED. A REPLACEMENT WELL WITH THE SAME IDENTIFICATION NUMBER WAS INSTALLED IN MARCH 2Ø11 AND WILL BE SAMPLED IN 2Q11.

MW-9 MW-10 MW-11 MW-12 MW-1 MW-2 MW-3 MW-4 MW-5 MW-7 MW-8 MW-13 MW-6A MW-6B MW-6C MW-6D P-54 P-55 P-56 P-57 P-58 P-59 P-61 P-66 P-68 P-73 P-74 P-93A P-93B P-93C P-93D T-6 T-12 T-24 A-33

SECOND ST
THIRD ST
FOURTH ST
FIFTH ST
SIXTH ST
SEVENTH ST
EIGHTH ST
RAND AVENUE
VILLAGE OF ROXANA
(S. CENTRAL AVE) HIGHWAY 111
CHAEFER ST
WOOD RIVER REFINERY
WEST PROPERTY

Sample Location	MW-9
Sampled 01/21/11	Result (mg/L)
Benzene	0.0037
Chloroform	<0.001
Ethylbenzene	<0.001
MTBE	<0.001
Toluene	<0.001
1,3,5-Trimethylbenzene	<0.005
bis(2-Ethylhexyl)phthalate	<0.0021
Phenol	<0.0053

Sample Location	MW-10
Sampled 01/24/11	Result (mg/L)
Benzene	<0.005/<0.005
Chloroform	<0.001/<0.001
Ethylbenzene	<0.001/<0.001
MTBE	<0.001/<0.001
Toluene	<0.001/<0.001
1,3,5-Trimethylbenzene	<0.005/<0.005
bis(2-Ethylhexyl)phthalate	0.00068 J/0.00071 J
Phenol	<0.0051/<0.005

Sample Location	MW-11
Sampled 01/24/11	Result (mg/L)
Benzene	<0.005
Chloroform	<0.001
Ethylbenzene	<0.001
MTBE	<0.001
Toluene	<0.001
1,3,5-Trimethylbenzene	<0.005
bis(2-Ethylhexyl)phthalate	0.00073 J
Phenol	<0.0052

Sample Location	MW-1
Sampled 01/17/11	Result (mg/L)
Benzene	<0.0005
Chloroform	<0.001
Ethylbenzene	<0.001
MTBE	0.0032
Toluene	<0.001
1,3,5-Trimethylbenzene	<0.005
bis(2-Ethylhexyl)phthalate	<0.0025
Phenol	<0.0063

Sample Location	MW-2
Sampled 01/17/11	Result (mg/L)
Benzene	0.294
Chloroform	<0.001
Ethylbenzene	0.74
MTBE	<0.001
Toluene	0.737
1,3,5-Trimethylbenzene	0.0744
bis(2Ethylhexyl)phthalate	0.25
Phenol	<0.0048

Sample Location	P93A	P93B	P93C
Sampled 01/26/11	Result (mg/L)	Result (mg/L)	Result (mg/L)
Benzene	491	105	86.5
Chloroform	<0.001	<0.001	<0.001
Ethylbenzene	0.373	0.0104	0.0175
MTBE	0.124	0.0088	0.0014
Toluene	0.0654	0.0321	0.0067
1,3,5-Trimethylbenzene	0.045	0.0016 J	<0.005
bis(2-Ethylhexyl)phthalate	<0.002	<0.0021	<0.002
Phenol	0.172	0.106	0.0166

Sample Location	P-54
Sampled 01/24/11	Result (mg/L)
Benzene	<0.00039
Chloroform	<0.001
Ethylbenzene	<0.001
MTBE	<0.001
Toluene	<0.001
1,3,5-Trimethylbenzene	<0.005
bis(2-Ethylhexyl)phthalate	<0.002
Phenol	<0.005

Sample Location	MW-12
Sampled 01/24/11	Result (mg/L)
Benzene	<0.005
Chloroform	<0.001
Ethylbenzene	<0.001
MTBE	<0.001
Toluene	<0.001
1,3,5-Trimethylbenzene	<0.005
bis(2-Ethylhexyl)phthalate	<0.002
Phenol	<0.005

Sample Location	MW-4
Sampled 01/18/11	Result (mg/L)
Benzene	0.0567
Chloroform	<0.001
Ethylbenzene	<0.001
MTBE	0.007
Toluene	0.0071
1,3,5-Trimethylbenzene	<0.005
bis(2-Ethylhexyl)phthalate	<0.0021
Phenol	0.0052

Sample Location	MW-3
Sampled 01/18/11	Result (mg/L)
Benzene	0.00056
Chloroform	<0.001
Ethylbenzene	0.00082 J
MTBE	0.0021
Toluene	<0.001
1,3,5-Trimethylbenzene	<0.005
bis(2-Ethylhexyl)phthalate	0.00062 J
Phenol	<0.0053

Sample Location	MW-5
Sampled 01/18/11	Result (mg/L)
Benzene	0.0048
Chloroform	<0.001
Ethylbenzene	<0.001
MTBE	0.0066
Toluene	<0.001
1,3,5-Trimethylbenzene	<0.005
bis(2-Ethylhexyl)phthalate	<0.0021
Phenol	<0.0053

Sample Location	MW-7
Sampled 01/25/11	Result (mg/L)
Benzene	1150 J
Chloroform	<0.001 UJ
Ethylbenzene	0.0325 J
MTBE	<0.0057
Toluene	0.0907 J
1,3,5-Trimethylbenzene	0.0133 J
bis(2-Ethylhexyl)phthalate	<0.0021
Phenol	0.0737

Sample Location	MW-6A	MW-6B	MW-6C	MW-6D
Sampled 01/19/11	Result (mg/L)	Result (mg/L)	Result (mg/L)	Result (mg/L)
Benzene	0.0113	0.0082/0.0082	0.0085	0.0104
Chloroform	<0.001	<0.001/<0.001	<0.001	<0.001
Ethylbenzene	<0.001	<0.001/<0.001	<0.001	<0.001
MTBE	0.0181	0.0016/0.0016	0.0021	<0.001
Toluene	<0.001	<0.001/<0.001	<0.001	<0.001
1,3,5-Trimethylbenzene	<0.005	<0.005/<0.005	<0.005	<0.005
bis(2-Ethylhexyl)phthalate	<0.002	<0.002/<0.002	<0.0021	<0.0021
Phenol	<0.005	<0.005/<0.0051	<0.0053	<0.0053

Sample Location	MW-8
Sampled 01/25/11	Result (mg/L)
Benzene	986/1030
Chloroform	<0.001 UJ/<0.001 UJ
Ethylbenzene	0.234 J/0.237 J
MTBE	0.21 J/0.205 J
Toluene	1.2 E J/1.12 E J
1,3,5-Trimethylbenzene	0.0332 J/0.0336 J
bis(2-Ethylhexyl)phthalate	0.00086 J/0.0012 J
Phenol	0.119 J/0.171 J

Sample Location	MW-13
Sampled 01/25/11	Result (mg/L)
Benzene	<0.005
Chloroform	<0.001
Ethylbenzene	<0.001
MTBE	<0.001
Toluene	<0.001
1,3,5-Trimethylbenzene	<0.005
bis(2-Ethylhexyl)phthalate	<0.0021
Phenol	<0.0052

Ø 200
SCALE FEET

N

SHELL OIL PRODUCTS US
FIRST QUARTER 2Ø11 GROUNDWATER EVENT
ROXANA, ILLINOIS

PROJECT NO. 21562593

URS

DRN. BY: djd April 2Ø11
DSGN. BY: kh
CHKD. BY: tja

1Q11 Groundwater Monitoring Well Analytical Results Summary

FIG. NO. 4

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 1Q11 GW PROJECT NUMBER: 21562593.00003 FIELD PERSONNEL: K Hurst / N. Satom

DATE: 1/17/11 WEATHER: N40°F, Sunny

MONITORING WELL ID: MW-1 SAMPLE ID: ~~MW-1-011711~~ MW1-Rox-011711

INITIAL DATA

Well Diameter): 1 in
Total Well Depth (btoc): 58.41 ft
Depth to Water (btoc): 37.35 ft
Depth to LNAPL/DNAPL (btoc): — ft
Depth to Top of Screen (btoc): 43.41 ft
Screen Length): 15 ft

Water Column Height (do not include LNAPL or DNAPL): 21.06 ft btoc
If Depth to Top of Screen is > Depth to Water AND Screen Length is ≥4 feet,
Place Pump at: Total Well Depth – 0.5 (Screen Length + DNAPL Column Height) = 40.91 ft btoc
If Depth to Top of Screen is < Depth to Water AND Water Column Height and Screen Length are ≥ 4ft,
Place Pump at: Total Well Depth – (0.5 X Water Column Height + DNAPL Column Height) = — ft btoc
If Screen Length and/or water column height is < 4 ft, Place Pump at: Total Well Depth - 2 ft = — ft btoc

Volume of Flow Through Cell): 800 ml
Minimum Purge Volume = (3 x Flow Cell Volume): 2400 ml
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 14.2 ppm

PURGE DATA

Pump Type: SS Bladder Pump

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Temp (°C)	Cond. (mS/cm)	Turbidity (NTUs)	DO (mg/L)	ORP (mV)
0	1115	NM	Clear	None	6.83	5.17	1.386	1.3	0.09	114
800	1131				6.82	5.60	1.195	1.1	0.08	106
1600	1147				6.78	5.73	1.179	1.0	0.08	105
2400	1203				6.77	5.99	1.185	1.0	0.08	104
3200	1219				6.76	5.98	1.189	1.0	0.08	102

Start Time: 1115 Elapsed Time (min): 64 min Water Quality Meter ID: TROLL 9500

Stop Time: 1219 Average Purge Rate (mL/min): 50 mL/min Date Calibrated: 1/17/11

SAMPLING DATA

Sample Date: 1/17/11 Sample Time: 1225 Lab Analysis: VOC, SVOC

Sample Method: Bladder Pump / Low Flow Sample Flow Rate (mL/min): 50 ml/min QA/QC Samples: None

VOA Vials, No Headspace ☒ Initials: KH

COMMENTS: No draw down. Measured DTW at the end of sampling. WL – 37.35 ft

Total Purge Volume: 3200 mL

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 1Q11 GW **PROJECT NUMBER:** 21562593.00003 **FIELD PERSONNEL:** K. Hurst / N. Satam

DATE: 1/17/11 **WEATHER:** Cloudy, 46°F

MONITORING WELL ID: MW-2 **SAMPLE ID:** MW2-ROX-011711

INITIAL DATA

Well Diameter: 1 in
Total Well Depth (btoc): 62.19 ft
Depth to Water (btoc): 38.26 ft
Depth to LNAPL/DNAPL (btoc): — ft
Depth to Top of Screen (btoc): 47.19 ft
Screen Length): 15 ft

Water Column Height (do not include LNAPL or DNAPL): 23.93 ft btoc
If Depth to Top of Screen is > Depth to Water AND Screen Length is ≥4 feet,
Place Pump at: Total Well Depth – 0.5 (Screen Length + DNAPL Column Height) = 54.69 ft btoc
If Depth to Top of Screen is < Depth to Water AND Water Column Height and Screen Length are ≥ 4ft,
Place Pump at: Total Well Depth – (0.5 X Water Column Height + DNAPL Column Height) = — ft btoc
If Screen Length and/or water column height is < 4 ft, Place Pump at: Total Well Depth - 2 ft = — ft btoc

Volume of Flow Through Cell): 800 ml
Minimum Purge Volume = (3 x Flow Cell Volume): 2400 ml
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 730 ppm

PURGE DATA

Pump Type: SS Bladder Pump

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Temp (°C)	Cond. (mS/cm)	Turbidity (NTUs)	DO (mg/L)	ORP (mV)
0	1545	NM	clear	hydrocarbon	6.72	8.68	6.72	12.7	2.01	-41
800	1553				6.69	11.62	1.463	13.9	1.38	-46
1600	1601				6.67	13.69	1.607	11.7	0.75	-55
2400	1609				6.66	14.50	1.746	10.8	0.56	-62
3200	1617				6.66	14.97	1.914	12.6	0.68	-69
4000	1625				6.69	15.06	1.972	13.6	0.80	-70
4800	1633				6.70	15.14	2.052	10.3	0.93	-71
5600	1641				6.71	15.16	2.124	8.3	0.99	-71
6400	1649				6.72	15.14	2.048	8.0	0.97	-69

Start Time: 1545 Elapsed Time (min): 64 min Water Quality Meter ID: TROLL 9500

Stop Time: 1649 Average Purge Rate (mL/min): 100 mL/min Date Calibrated: 1/17/11

SAMPLING DATA

Sample Date: 1/17/11 Sample Time: 1655 Lab Analysis: VOC, SVOC

Sample Method: Bladder Pump / Low Flow Sample Flow Rate (mL/min): 100 ml/min QA/QC Samples: None

VOA Vials, No Headspace ☒ Initials: KH

COMMENTS:

Post sampling DTW - 38.26ft No Drawdown -

Total Purge Volume: 6400 mL

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 1Q11 GW **PROJECT NUMBER:** 21562593.00003 **FIELD PERSONNEL:** K. Hurst | N. Salem

DATE: 1/18/11 **WEATHER:** N 35°F, Overcast

MONITORING WELL ID: MW-3 **SAMPLE ID:** MW3-ROX-011810

INITIAL DATA

Well Diameter: 1 in
Total Well Depth (btoc): 45.98 ft
Depth to Water (btoc): 24.77 ft
Depth to LNAPL/DNAPL (btoc): — ft
Depth to Top of Screen (btoc): 30.98 ft
Screen Length): 15 ft

Water Column Height (do not include LNAPL or DNAPL): 21.21 ft btoc
If Depth to Top of Screen is > Depth to Water AND Screen Length is ≥4 feet,
Place Pump at: Total Well Depth – 0.5 (Screen Length + DNAPL Column Height) = 38.48 ft btoc
If Depth to Top of Screen is < Depth to Water AND Water Column Height and Screen Length are ≥ 4ft,
Place Pump at: Total Well Depth – (0.5 X Water Column Height + DNAPL Column Height) = — ft btoc
If Screen Length and/or water column height is < 4 ft, Place Pump at: Total Well Depth - 2 ft = — ft btoc

Volume of Flow Through Cell): 800 ml
Minimum Purge Volume = (3 x Flow Cell Volume): 2900 ml
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 2.6 ppm

PURGE DATA

Pump Type: SS Bladder Pump

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Temp (°C)	Cond. (mS/cm)	Turbidity (NTUs)	DO (mg/L)	ORP (mV)
0	0920	NM	Clear	Hydrocarbon	6.94	8.10	6.94	21	0.25	-7
800	0928				6.89	8.55	1.86	14.6	0.30	-41
1600	0936				6.87	8.77	1.988	9.8	0.32	-61
2400	0942				6.86	8.51	2.070	7.9	0.32	-70
3200	0950				6.86	8.52	2.167	4.9	0.30	-79
4000	0956				6.87	8.47	2.204	4.5	0.29	-82
4800	1006				6.89	8.15	2.260	4.3	0.70	-83
5600	1012				6.89	6.64	2.294	4.7	0.56	-83
6400	1020				6.88	6.92	2.307	4.0	0.47	-83
7200	1028				6.88	7.30	2.330	2.4	0.33	-86
8000	1036				6.88	7.48	2.342	2.1	0.29	-87
8800	1044				6.88	7.31	2.349	2.0	0.26	-89

Start Time: 0920 Elapsed Time (min): 84 min Water Quality Meter ID: TROLL 9500

Stop Time: 1044 Average Purge Rate (mL/min): 100 mL Date Calibrated: 1/18/11

SAMPLING DATA

Sample Date: 1/18/11 Sample Time: 1050 Lab Analysis: VOC, SVOC

Sample Method: Bladder Pump / Low Flow Sample Flow Rate (mL/min): 100 mL/min QA/QC Samples: None

VOA Vials, No Headspace ☒ Initials: KH

COMMENTS:

1000 - Begins to snow

Post sampling water level reading - 24.83 ft

Total Purge Volume: 8800 mL

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 1Q11 GW PROJECT NUMBER: 21562593.00003 FIELD PERSONNEL: N. Sabam / K Hurst

DATE: 1/18/11 WEATHER: ~40°F, Overcast

MONITORING WELL ID: MW-4 SAMPLE ID: MW4-ROX-011811

INITIAL DATA

Well Diameter): 1 in
Total Well Depth (btoc): 57.63 ft
Depth to Water (btoc): 38.89 ft
Depth to LNAPL/DNAPL (btoc): — ft
Depth to Top of Screen (btoc): 42.63 ft
Screen Length): 15 ft

Water Column Height (do not include LNAPL or DNAPL): 50.13 ft btoc
If Depth to Top of Screen is > Depth to Water AND Screen Length is ≥4 feet,
Place Pump at: Total Well Depth – 0.5 (Screen Length + DNAPL Column Height) = — ft btoc
If Depth to Top of Screen is < Depth to Water AND Water Column Height and Screen Length are ≥ 4ft,
Place Pump at: Total Well Depth – (0.5 X Water Column Height + DNAPL Column Height) = — ft btoc
If Screen Length and/or water column height is < 4 ft, Place Pump at: Total Well Depth - 2 ft = — ft btoc

Volume of Flow Through Cell): 800 ml
Minimum Purge Volume = (3 x Flow Cell Volume): 2400 ml
Ambient PID/FID Reading: 0 ppm
Wellbore PID/FID Reading: 3.6 ppm

PURGE DATA

Pump Type: SS Bladder Pump

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Temp (°C)	Cond. (mS/cm)	Turbidity (NTUs)	DO (mg/L)	ORP (mV)
0	1445	NM	Clear	hydrocarbon	6.99	8.82	2.056	14.1	4.08	-7
800	1453				6.99	9.43	2.133	12.1	9.09	-15
1600	1301				6.86	10.07	2.277	7.7	1.57	-22
2400	1309				6.84	10.21	2.329	6.6	1.09	-41
3200	1317				6.83	10.28	2.334	8.6	0.95	-44
4000	1325				6.83	10.19	2.348	9.2	0.89	-48
4800	1333				6.83	10.24	2.352	9.6	0.86	-51

Start Time: 1445 Elapsed Time (min): 50 mins Water Quality Meter ID: TROLL 9500

Stop Time: 1335 Average Purge Rate (mL/min): 100 mL/min Date Calibrated: 1/18/11

SAMPLING DATA

Sample Date: 1/18/11 Sample Time: 1335 Lab Analysis: VOC, SVOC

Sample Method: Bladder Pump / Low Flow Sample Flow Rate (mL/min): 100 mL/min QA/QC Samples: —

VOA Vials, No Headspace ☒ Initials: KH

COMMENTS: Depth to water post sampling – 38.90

Total Purge Volume: 4800 mL

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 1Q11 GW | PROJECT NUMBER: 21562593.00003 | FIELD PERSONNEL: N. Sataw / K Hurst

DATE: 1/18/11 | WEATHER: @ 30°F, overcast

MONITORING WELL ID: MW-5 | SAMPLE ID: MW5-ROX-011811

INITIAL DATA

Well Diameter): 1 in
Total Well Depth (btoc): 46.13 ft
Depth to Water (btoc): 24.06 ft
Depth to LNAPL/DNAPL (btoc): - ft
Depth to Top of Screen (btoc): 31.13 ft
Screen Length): 15 ft

Water Column Height (do not include LNAPL or DNAPL): 22.07 ft btoc
If Depth to Top of Screen is > Depth to Water AND Screen Length is ≥4 feet,
Place Pump at: Total Well Depth – 0.5 (Screen Length + DNAPL Column Height) = 38.63 ft btoc
If Depth to Top of Screen is < Depth to Water AND Water Column Height and Screen Length are ≥ 4ft,
Place Pump at: Total Well Depth – (0.5 X Water Column Height + DNAPL Column Height) = - ft btoc
If Screen Length and/or water column height is < 4 ft, Place Pump at: Total Well Depth - 2 ft = - ft btoc

Volume of Flow Through Cell): 800 ml
Minimum Purge Volume = (3 x Flow Cell Volume): 2400 ml
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 4.3 ppm

PURGE DATA

Pump Type: SS Bladder Pump

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Temp (°C)	Cond. (mS/cm)	Turbidity (NTUs)	DO (mg/L)	ORP (mV)
0	1452	24.09	Clear	Hydrocarbon	7.02	6.06	1.845	12.1	3.63	-30
800	1500				6.92	6.83	1.950	8.5	2.42	-41
1600	1508				6.87	7.92	2.012	5.2	1.55	-48
2400	1516				6.85	8.41	2.034	3.9	1.20	-54
3200	1524				6.83	9.15	2.039	3.6	1.03	-59
4000	1532				6.83	9.41	2.045	2.5	0.93	-63
4800	1540				6.83	9.31	2.051	2.7	0.91	-64
5600	1548				6.82	9.51	2.051	2.6	0.95	-64

Start Time: 1452 | Elapsed Time (min): 56 min | Water Quality Meter ID: TROLL 9500

Stop Time: 1548 | Average Purge Rate (mL/min): 100 ml/min | Date Calibrated: 1/18/11

SAMPLING DATA

Sample Date: 1/18/11 | Sample Time: 1555 | Lab Analysis: VOC, SVOC

Sample Method: Bladder Pump / Low Flow | Sample Flow Rate (mL/min): 100 ml/min | QA/QC Samples: None

VOA Vials, No Headspace ☒ Initials: KH

COMMENTS:

Total Purge Volume: 5600 mL

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 1Q11 GW PROJECT NUMBER: 21562593.00003 FIELD PERSONNEL: K. Hurst, N. Salaam

DATE: 1/19/11 WEATHER: N 20°F, Overcast

MONITORING WELL ID: MW-6A SAMPLE ID: MW6A-Rox-011911

INITIAL DATA

Well Diameter): 1 in
Total Well Depth (btoc): 46.98 ft
Depth to Water (btoc): 26.40 ft
Depth to LNAPL/DNAPL (btoc): — ft
Depth to Top of Screen (btoc): 31.98 ft
Screen Length): 15 ft

Water Column Height (do not include LNAPL or DNAPL): 20.58 ft btoc
If Depth to Top of Screen is > Depth to Water AND Screen Length is ≥4 feet,
Place Pump at: Total Well Depth – 0.5 (Screen Length + DNAPL Column Height) = 38.71 ft btoc
If Depth to Top of Screen is < Depth to Water AND Water Column Height and Screen Length are ≥ 4ft,
Place Pump at: Total Well Depth – (0.5 X Water Column Height + DNAPL Column Height) = — ft btoc
If Screen Length and/or water column height is < 4 ft, Place Pump at: Total Well Depth - 2 ft = _____ ft btoc

Volume of Flow Through Cell): 800 ml
Minimum Purge Volume = (3 x Flow Cell Volume): 2400 ml
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 10.2 ppm

PURGE DATA

Pump Type: SS Bladder Pump

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Temp (°C)	Cond. (mS/cm)	Turbidity (NTUs)	DO (mg/L)	ORP (mV)
0	1042	[redacted]	Clear	None	6.88	8.64	2.009	26.5	0.15	-8
800	1050				6.84	9.14	2.073	21.4	0.19	-39
1600	1058				6.84	7.42	2.195	17.7	0.55	-57
2400	1106				6.86	5.82	2.284	19.0	0.37	-60
3200	1114				6.82	8.03	2.234	18.2	0.53	-63
4000	1122				6.80	9.49	2.247	11.0	0.39	-68
4800	1130				6.80	9.70	2.270	9.4	0.38	-72
5600	1138				6.80	10.99	2.274	7.4	0.34	-75

Start Time: 1042 Elapsed Time (min): 56 min Water Quality Meter ID: TROLL 9500

Stop Time: 1138 Average Purge Rate (mL/min): 100 ml/min Date Calibrated: 1/19/11

SAMPLING DATA

Sample Date: 1/19/11 Sample Time: 1145 Lab Analysis: VOC, SVOC

Sample Method: Bladder Pump / Low Flow Sample Flow Rate (mL/min): 100 ml/min QA/QC Samples: MW6A-Rox-011911EB

VOA Vials, No Headspace ☒ Initials: KH

COMMENTS:

Windy, Clouds w/ sun Changing temp dramatically
Post sampling water level - 26.40 ft - No draw down

Total Purge Volume: 5600 mL

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 1Q11 GW PROJECT NUMBER: 21562593.00003 FIELD PERSONNEL: K. Hurst / N. Setum

DATE: 1/19/11 WEATHER: Partly Cloudy, 29°F

MONITORING WELL ID: MW-6B SAMPLE ID: MW6B-ROX-011911

INITIAL DATA

Well Diameter): 2 in
Total Well Depth (btoc): 69.38 ft
Depth to Water (btoc): 26.23 ft
Depth to LNAPL/DNAPL (btoc): - ft
Depth to Top of Screen (btoc): 64.05 ft
Screen Length): 5 ft

Water Column Height (do not include LNAPL or DNAPL): 43.15 ft btoc
If Depth to Top of Screen is > Depth to Water AND Screen Length is ≥4 feet,
Place Pump at: Total Well Depth – 0.5 (Screen Length + DNAPL Column Height) = 66.88 ft btoc
If Depth to Top of Screen is < Depth to Water AND Water Column Height and Screen Length are ≥ 4ft,
Place Pump at: Total Well Depth – (0.5 X Water Column Height + DNAPL Column Height) = — ft btoc
If Screen Length and/or water column height is < 4 ft, Place Pump at: Total Well Depth - 2 ft = — ft btoc

Volume of Flow Through Cell): 800 ml
Minimum Purge Volume = (3 x Flow Cell Volume): 2400 ml
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 29.9 ppm

PURGE DATA

Pump Type: SS Bladder Pump

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Temp (°C)	Cond. (mS/cm)	Turbidity (NTUs)	DO (mg/L)	ORP (mV)
0	1350	26.30	Clear	None	7.10	15.76	1.930	13.9	1.16	31
800	1354	↓	↓	↓	6.97	16.18	2.043	4.7	0.44	-10
1600	1358				6.95	16.22	2.085	2.5	0.37	-23
2400	1402				6.93	16.05	2.114	1.6	0.30	-32
3200	1406				6.93	16.07	2.128	1.1	0.25	-39
4000	1410				6.93	15.90	2.130	1.4	0.22	-46

Start Time: 1350 Elapsed Time (min): 20 min Water Quality Meter ID: TROLL 9500

Stop Time: 1410 Average Purge Rate (mL/min): 200 ml/min Date Calibrated: 1/19/11

SAMPLING DATA

Sample Date: 1/19/11 Sample Time: 1415 Lab Analysis: VOC, SVOC

Sample Method: Bladder Pump / Low Flow Sample Flow Rate (mL/min): 200 ml/min QA/QCSamples: MW6B-ROX-011911 Dup

VOA Vials, No Headspace ☒ Initials: KH

COMMENTS:

Total Purge Volume: 4000 mL

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 1Q11 GW PROJECT NUMBER: 21562593.00003 FIELD PERSONNEL: N. Sataum / K Hurst

DATE: 1/21/11 WEATHER: N GF overcast

MONITORING WELL ID: MW-6C SAMPLE ID: MW6C-012111

INITIAL DATA

Well Diameter): 2 in
Total Well Depth (btoc): 90.28 ft
Depth to Water (btoc): 26.07 ft
Depth to LNAPL/DNAPL (btoc): - ft
Depth to Top of Screen (btoc): 84.95 ft
Screen Length): 5 ft

Water Column Height (do not include LNAPL or DNAPL): 74.21 ~~82.45~~ ft btoc
If Depth to Top of Screen is > Depth to Water AND Screen Length is ≥4 feet,
Place Pump at: Total Well Depth – 0.5 (Screen Length + DNAPL Column Height) = 82.45 ft btoc
If Depth to Top of Screen is < Depth to Water AND Water Column Height and Screen Length are ≥ 4ft,
Place Pump at: Total Well Depth – (0.5 X Water Column Height + DNAPL Column Height) = - ft btoc
If Screen Length and/or water column height is < 4 ft, Place Pump at: Total Well Depth - 2 ft = - ft btoc

Volume of Flow Through Cell): 800 ml
Minimum Purge Volume = (3 x Flow Cell Volume): 2400 ml
Ambient PID/FID Reading: 0 ppm
Wellbore PID/FID Reading: 7.0 ppm

PURGE DATA

Pump Type: SS Bladder Pump

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Temp (°C)	Cond. (mS/cm)	Turbidity (NTUs)	DO (mg/L)	ORP (mV)
0	0950	26.07	Clear	Hydrocarbon	7.01	12.98C	1.044	22.0	-0.17	-18
800	0954	↓	↓	↓	6.91	13.73	0.938	16.70	-0.12	-41
1600	0958	26.07			6.88	13.86	0.976	9.5	-0.12	-50
2400	1002	↓			6.82	13.72	0.979	5.3	-0.13	-63
3200	1006	26.02			6.87	13.90	0.981	4.2	-0.13	-66

Start Time: 1010
Stop Time: 1010

Elapsed Time (min): 30
Average Purge Rate (mL/min): 200 mL/min

Water Quality Meter ID: TROLL 9500
Date Calibrated: 1/21/11

SAMPLING DATA

Sample Date: 1/21/11
Sample Time: 1010
Lab Analysis: VOC, SVOC
Sample Method: Bladder Pump / Low Flow
Sample Flow Rate (mL/min): 200 mL/min
QA/QC Samples: MW6E-Rox - 012011 EB
VOA Vials, No Headspace ☑ Initials: NS

COMMENTS:

Total Purge Volume: 3200 mL

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 1Q11 GW PROJECT NUMBER: 21562593.00003 FIELD PERSONNEL: K. Hush / N. Setem

DATE: 1/21/11 WEATHER: Sunny, 10°F

MONITORING WELL ID: MW-6D SAMPLE ID: MW6D-Rox-012111

INITIAL DATA

Well Diameter): 2 in
Total Well Depth (btoc): 110.05 ft
Depth to Water (btoc): 26.01 ft
Depth to LNAPL/DNAPL (btoc): — ft
Depth to Top of Screen (btoc): 104.72 ft
Screen Length): 5 ft

Water Column Height (do not include LNAPL or DNAPL): 84.04 ft btoc
If Depth to Top of Screen is > Depth to Water AND Screen Length is ≥4 feet,
Place Pump at: Total Well Depth – 0.5 (Screen Length + DNAPL Column Height) = 107.55 ft btoc
If Depth to Top of Screen is < Depth to Water AND Water Column Height and Screen Length are ≥ 4ft,
Place Pump at: Total Well Depth – (0.5 X Water Column Height + DNAPL Column Height) = — ft btoc
If Screen Length and/or water column height is < 4 ft, Place Pump at: Total Well Depth - 2 ft = — ft btoc

Volume of Flow Through Cell): 800 ml
Minimum Purge Volume = (3 x Flow Cell Volume): 2400 ml
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 11.7 ppm

PURGE DATA

Pump Type: SS Bladder Pump

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Temp (°C)	Cond. (mS/cm)	Turbidity (NTUs)	DO (mg/L)	ORP (mV)
0	1052	26.01	clear	None	7.16	10.62	1.245	6.4	2.08	-75
800	1056	↓	↓	↓	7.11	11.89	1.291	5.9	1.14	-50
1600	1100				7.07	12.99	1.306	4.3	0.55	-59
2400	1104				7.05	13.54	1.316	2.7	0.31	-65
3200	1108				7.04	13.77	1.312	1.4	0.21	-70
4000	1112				7.05	13.66	1.330	1.3	0.14	-74

Start Time: 1052 Elapsed Time (min): 20 min Water Quality Meter ID: TROLL 9500

Stop Time: 1112 Average Purge Rate (mL/min): 200 ml/min Date Calibrated: 1/21/11

SAMPLING DATA

Sample Date: 1/21/11 Sample Time: 1120 Lab Analysis: VOC, SVOC

Sample Method: Bladder Pump / Low Flow Sample Flow Rate (mL/min): 200 ml/min QA/QC Samples: —

VOA Vials, No Headspace ☒ Initials: KH

COMMENTS:

Total Purge Volume: 4000 mL

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 1Q11 GW PROJECT NUMBER: 21562593.00003 FIELD PERSONNEL: N. Satam / K. Hurst

DATE: 1/25/11 WEATHER: N 30°F, Overcast

MONITORING WELL ID: MW-7 SAMPLE ID: MW7-Rox-012511

INITIAL DATA

Well Diameter): 2 in
Total Well Depth (btoc): 52.92 ft
Depth to Water (btoc): 37.38 ft
Depth to LNAPL/DNAPL (btoc): — ft
Depth to Top of Screen (btoc): 42.92 ft
Screen Length): 10 ft

Water Column Height (do not include LNAPL or DNAPL): 25.34 ft btoc
If Depth to Top of Screen is > Depth to Water AND Screen Length is ≥4 feet,
Place Pump at: Total Well Depth – 0.5 (Screen Length + DNAPL Column Height) = 47.92 ft btoc
If Depth to Top of Screen is < Depth to Water AND Water Column Height and Screen Length are ≥ 4ft,
Place Pump at: Total Well Depth – (0.5 X Water Column Height + DNAPL Column Height) = — ft btoc
If Screen Length and/or water column height is < 4 ft, Place Pump at: Total Well Depth - 2 ft = — ft btoc

Volume of Flow Through Cell): 800 ml
Minimum Purge Volume = (3 x Flow Cell Volume): 2400 ml
Ambient PID/FID Reading: 3.2 ppm
Wellbore PID/FID Reading: 620 ppm

PURGE DATA

Pump Type: SS Bladder Pump

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Temp (°C)	Cond. (mS/cm)	Turbidity (NTUs)	DO (mg/L)	ORP (mV)
0	1414	37.52	Clear	Hydrocarbon	6.56	13.49	1.946	9.7	0.88	27
800	1418	37.52	↓	↓	6.54	14.43	1.969	6.6	0.64	19
1600	1422				6.53	14.48	1.927	5.2	0.68	9
2400	1426				6.53	14.54	1.898	4.5	0.66	4
3200	1430				6.53	14.38	1.880	3.6	0.70	-2
4000	1434				6.53	14.40	1.869	3.2	0.74	-6
4800	1438									

Start Time: 1414
Stop Time: 1435
Elapsed Time (min): 25
Average Purge Rate (mL/min): 200 mL/m
Water Quality Meter ID: TROLL 9500
Date Calibrated: 1/25/11

SAMPLING DATA

Sample Date: 1/25/11
Sample Time: 1435
Lab Analysis: VOC, SVOC
Sample Method: Bladder Pump / Low Flow
Sample Flow Rate (mL/min): 200
QA/QC Samples: —
VOA Vials, No Headspace ☑ Initials: KH

COMMENTS:

Total Purge Volume: 4800 mL

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 1Q11 GW PROJECT NUMBER: 21562593.00003 FIELD PERSONNEL: N. Satam / K. Hurst

DATE: 1/25/11 WEATHER: N30°F, Sunny

MONITORING WELL ID: MW-8 SAMPLE ID: MW8-ROX-012511

INITIAL DATA

Well Diameter): 2 in
Total Well Depth (btoc): 43.60 ft
Depth to Water (btoc): 28.70 ft
Depth to LNAPL/DNAPL (btoc): - ft
Depth to Top of Screen (btoc): 33.60 ft
Screen Length): 10 ft

Water Column Height (do not include LNAPL or DNAPL): 15.9 ft btoc
If Depth to Top of Screen is > Depth to Water AND Screen Length is ≥4 feet,
Place Pump at: Total Well Depth – 0.5 (Screen Length + DNAPL Column Height) = 38.60 ft btoc
If Depth to Top of Screen is < Depth to Water AND Water Column Height and Screen Length are ≥ 4ft,
Place Pump at: Total Well Depth – (0.5 X Water Column Height + DNAPL Column Height) = - ft btoc
If Screen Length and/or water column height is < 4 ft, Place Pump at: Total Well Depth - 2 ft = - ft btoc

Volume of Flow Through Cell): 800 ml
Minimum Purge Volume = (3 x Flow Cell Volume): 2400 ml
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 802 ppm

PURGE DATA

Pump Type: SS Bladder Pump

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Temp (°C)	Cond. (mS/cm)	Turbidity (NTUs)	DO (mg/L)	ORP (mV)
0	1300	28.68	Cloudy	hydrocarbon	6.61	13.81	2.155	74.0	0.86	37
800	1304	28.68			6.40	15.35	2.165	39.0	0.53	11
1600	1308				6.39	15.56	2.154	31	0.61	3
2400	1312				6.38	15.89	2.094	25.5	0.70	-5
3200	1316				6.37	16.02	2.082	22.0	0.72	-9
4000	1320				6.37	16.19	2.068	20.0	0.71	-12
4800	1324	28.68	↓	↓	6.37	16.21	2.065	18.0	0.80	-14

Start Time: 1300 Elapsed Time (min): 25 Water Quality Meter ID: TROLL 9500

Stop Time: 1325 Average Purge Rate (mL/min): 200 Date Calibrated: 1/25

SAMPLING DATA

Sample Date: 1/25/11 Sample Time: 1325 Lab Analysis: VOC, SVOC

Sample Method: Bladder Pump / Low Flow Sample Flow Rate (mL/min): 200mL/m QA/QC Samples: MW8-ROX-012511 DUP

VOA Vials, No Headspace ☒ Initials: NS

COMMENTS:

Total Purge Volume: 48.06 mL

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 1Q11 GW PROJECT NUMBER: 21562593.00003 FIELD PERSONNEL: N. Satam / K Hurst

DATE: 1/21/11 WEATHER: ~ 6°F, Sunny

MONITORING WELL ID: MW-9 SAMPLE ID: MW9 - Rox - 012111

INITIAL DATA

Well Diameter: 2 in
Total Well Depth (btoc): 56.78 ft
Depth to Water (btoc): 39.65 ft
Depth to LNAPL/DNAPL (btoc): — ft
Depth to Top of Screen (btoc): 46.45 ft
Screen Length): 10 ft

Water Column Height (do not include LNAPL or DNAPL): 9.80 ft btoc
If Depth to Top of Screen is > Depth to Water AND Screen Length is ≥4 feet,
Place Pump at: Total Well Depth – 0.5 (Screen Length + DNAPL Column Height) = 41.45 ft btoc
If Depth to Top of Screen is < Depth to Water AND Water Column Height and Screen Length are ≥ 4ft,
Place Pump at: Total Well Depth – (0.5 X Water Column Height + DNAPL Column Height) = — ft btoc
If Screen Length and/or water column height is < 4 ft, Place Pump at: Total Well Depth - 2 ft = — ft btoc

Volume of Flow Through Cell): 600 mL
Minimum Purge Volume = (3 x Flow Cell Volume): 2400 mL
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: ~~0.0~~ 1.4 ppm

KH

PURGE DATA

Pump Type: SS Bladder Pump

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Temp (°C)	Cond. (mS/cm)	Turbidity (NTUs)	DO (mg/L)	ORP (mV)
0	1305	39.68	Cloudy	hydrocarbon	6.83	12.49	1.433	44	0.26	-25
800	1309				6.77	12.96	1.427	41	0.08	-27
1600	1313				6.76	13.00	1.488	39	0.05	-28
2400	1317				6.74	13.00	1.504	31.0	0.00	-31
3200	1321				6.74	13.09	1.512	25.1	-0.01	-32
4000	1325		clear		6.74	12.98	1.519	18.6	-0.04	-33
4800	1329				6.74	12.99	1.523	16.0	-0.04	-33
5600	1329				6.73	13.00	1.522	18.4	-0.03	-34
6400	1334	39.68			6.73	12.97	1.524	17.2	-0.03	-34

Start Time: ~~1305~~ 1305 Elapsed Time (min): 30 Water Quality Meter ID: TROLL 9500

Stop Time: 1334 Average Purge Rate (mL/min): 200 mL/m Date Calibrated: 1/21/11

SAMPLING DATA

Sample Date: 1/21/11 Sample Time: 1340 Lab Analysis: VOC, SVOC

Sample Method: Bladder Pump / Low Flow Sample Flow Rate (mL/min): 200 mL/m QA/QC Samples: ~~MW9 - Rox - 012111 MS~~ VOA

VOA Vials, No Headspace ☑ Initials: NS ~~MW9 - Rox - 012111 MSD~~

COMMENTS:

Total Purge Volume: 6400 mL

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 1Q11 GW **PROJECT NUMBER:** 21562593.00003 **FIELD PERSONNEL:** K. Hurst / N. Sutton

DATE: 1/24/11 **WEATHER:** Sunny, 35°F

MONITORING WELL ID: MW-10 **SAMPLE ID:** MW10 - ROX - 012411

INITIAL DATA

Well Diameter): 2 in 54.76
Total Well Depth (btoc): ~~54.99~~ ft
Depth to Water (btoc): ~~39.24~~ 39.38 ft
Depth to LNAPL/DNAPL (btoc): — ft
Depth to Top of Screen (btoc): 41.66 ft
Screen Length): 10 ft

Water Column Height (do not include LNAPL or DNAPL): 14.38 ft btoc
If Depth to Top of Screen is > Depth to Water AND Screen Length is ≥4 feet,
Place Pump at: Total Well Depth – 0.5 (Screen Length + DNAPL Column Height) = 49.76 ft btoc
If Depth to Top of Screen is < Depth to Water AND Water Column Height and Screen Length are ≥ 4ft,
Place Pump at: Total Well Depth – (0.5 X Water Column Height + DNAPL Column Height) = — ft btoc
If Screen Length and/or water column height is < 4 ft, Place Pump at: Total Well Depth - 2 ft = — ft btoc

Volume of Flow Through Cell): 800 ml
Minimum Purge Volume = (3 x Flow Cell Volume): 2400 ml
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: ~~43.4~~ ~~83.3~~ 36.1 (KH) ppm

PURGE DATA

Pump Type: SS Bladder Pump

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Temp (°C)	Cond. (mS/cm)	Turbidity (NTUs)	DO (mg/L)	ORP (mV)
0	1216	39.38	Clear	Hydrocarb...	6.81	10.12	1.554	18.7	0.79	-16
800	1220	↓	↓	↓	6.77	11.39	1.332	12.7	0.56	-25
1600	1224				6.74	12.45	1.487	9.5	0.44	-32
2400	1228				6.73	12.82	1.446	8.4	0.37	-37
3200	1232				6.72	13.15	1.413	7.6	0.36	-41
4000	1236				6.72	13.11	1.388	5.9	0.34	-44
4800	1240				6.71	13.05	1.364	5.1	0.34	-47
5600	1244				6.72	13.08	1.344	4.3	0.35	-48

Start Time: 1214 Elapsed Time (min): 28 min Water Quality Meter ID: TROLL 9500

Stop Time: 1244 Average Purge Rate (mL/min): 200 ml/min Date Calibrated: 1/24/11

SAMPLING DATA

Sample Date: 1/24/11 Sample Time: 1250 Lab Analysis: VOC, SVOC

Sample Method: Bladder Pump / Low Flow Sample Flow Rate (mL/min): 200 ml/min QA/QC Samples: MW10 - ROX - 012411 DUP

VOA Vials, No Headspace ☑ Initials: KH

COMMENTS:

Total Purge Volume: 5600 mL

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 1Q11 GW PROJECT NUMBER: 21562593.00003 FIELD PERSONNEL: R. Hess / N. Soten

DATE: 1/24/11 WEATHER: N30°E, Sunny

MONITORING WELL ID: ~~MW-10~~ 11 SAMPLE ID: MW11 - Rox - 012411

INITIAL DATA

Well Diameter): 2 in 51.99

Total Well Depth (btoc): ~~54.76~~ ~~56.76~~ 56.99 (KH)

Depth to Water (btoc): 37.24 ft

Depth to LNAPL/DNAPL (btoc): — ft

Depth to Top of Screen (btoc): ~~44.13~~ ~~46.13~~ 46.99 (KH)

Screen Length): 10 ft 41.67

Water Column Height (do not include LNAPL or DNAPL): ~~17.52~~ (KH) 14.75 ft btoc

If Depth to Top of Screen is > Depth to Water AND Screen Length is ≥4 feet,

Place Pump at: Total Well Depth – 0.5 (Screen Length + DNAPL Column Height) = ~~44.76~~ (KH) 46.99 ft btoc

If Depth to Top of Screen is < Depth to Water AND Water Column Height and Screen Length are ≥ 4ft,

Place Pump at: Total Well Depth – (0.5 X Water Column Height + DNAPL Column Height) = — ft btoc

If Screen Length and/or water column height is < 4 ft, Place Pump at: Total Well Depth - 2 ft = — ft btoc

Volume of Flow Through Cell): 800 ml

Minimum Purge Volume = (3 x Flow Cell Volume): 2400 ml

Ambient PID/FID Reading: 0 ppm

Wellbore PID/FID Reading: ~~93.4~~ 17.3 (KH) ppm

PURGE DATA

Pump Type: SS Bladder Pump

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Temp (°C)	Cond. (mS/cm)	Turbidity (NTUs)	DO (mg/L)	ORP (mV)
0	1104	37.24	Cloudy	hydrocarbon	6.83	12.22	0.783	29.3	1.09	106
800	1108	↓	↓	↓	6.67	13.31	1.249	25.6	0.320	-28
1600	1112				6.63	13.88	1.316	20.4	0.110	-42
2400	1116				6.62	14.04	1.322	17.4	0.030	-48
3200	1120				6.60	14.25	1.309	12.6	-0.01	-54
4000	1124				6.60	14.36	1.295	10.7	-0.03	-56
4800	1128				6.59	14.34	1.276	8.8	-0.05	-59
	~~1132~~									

Start Time: 1104 Elapsed Time (min): 24 Water Quality Meter ID: TROLL 9500

Stop Time: 1128 Average Purge Rate (mL/min): 200 mL/min Date Calibrated: 1/24/11

SAMPLING DATA

Sample Date: 1/24/11 Sample Time: 1135 Lab Analysis: VOC, SVOC

Sample Method: Bladder Pump / Low Flow Sample Flow Rate (mL/min): 200 mL/min QA/QC Samples: None

VOA Vials, No Headspace ☒ Initials: KH

COMMENTS:

Total Purge Volume: 4800 mL

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 1Q11 GW **PROJECT NUMBER:** 21562593.00003 **FIELD PERSONNEL:** K. Hurst / N Satam

DATE: 1/24/11 **WEATHER:** N 30°F, Overcast

MONITORING WELL ID: MW-12 **SAMPLE ID:** ~~MW12-012411~~ = MW12-ROX-012411

INITIAL DATA

Well Diameter: 2 in
Total Well Depth (btoc): 52.25 ft
Depth to Water (btoc): 37.49 ft
Depth to LNAPL/DNAPL (btoc): — ft
Depth to Top of Screen (btoc): 41.92 ft
Screen Length): 10 ft

Water Column Height (do not include LNAPL or DNAPL): 14.76 ft btoc
If Depth to Top of Screen is > Depth to Water AND Screen Length is ≥4 feet,
Place Pump at: Total Well Depth – 0.5 (Screen Length + DNAPL Column Height) = 36.92 ft btoc
If Depth to Top of Screen is < Depth to Water AND Water Column Height and Screen Length are ≥ 4ft,
Place Pump at: Total Well Depth – (0.5 X Water Column Height + DNAPL Column Height) = ____ ft btoc
If Screen Length and/or water column height is < 4 ft, Place Pump at: Total Well Depth - 2 ft = — ft btoc

Volume of Flow Through Cell): 800 mL
Minimum Purge Volume = (3 x Flow Cell Volume): 2400 mL
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 13.1 ppm

PURGE DATA

Pump Type: SS Bladder Pump

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Temp (°C)	Cond. (mS/cm)	Turbidity (NTUs)	DO (mg/L)	ORP (mV)
0	0920	37.47	Cloudy	hydrocarbon	6.72	14.32	1.732	62	-0.16	152
800	0924	37.47			6.69	14.60	1.671	55	-0.16	153
1600	0928	37.47	Clear		6.66	14.89	1.488	16.0	-0.16	156
3200	0932				6.66	14.95	1.434	12.2	-0.16	156
4000	0936				6.66	14.90	1.365	11.4	-0.16	157
4800	0940				6.66	14.95	1.290	10.2	-0.16	158
5600	0944				6.66	15.01	1.197	9.6	-0.16	158
6400	0948				6.66	15.02	1.088	9.5	-0.16	158
7200	0952				6.66	14.95	1.197	9.5	-0.17	158
8000	0954				6.66	14.98	1.196	9.2	-0.16	159

Start Time: 0920 Elapsed Time (min): 40 Water Quality Meter ID: TROLL 9500

Stop Time: 1000 Average Purge Rate (mL/min): 200 mL/min Date Calibrated: 1/25/11

SAMPLING DATA

Sample Date: 1/24/11 Sample Time: 1000 Lab Analysis: VOC, SVOC

Sample Method: Bladder Pump / Low Flow Sample Flow Rate (mL/min): 200 mL/min QA/QC Samples: MW12-ROX-012411MS

VOA Vials, No Headspace ☑ Initials: [illegible] (KH) MW12-ROX-012411MSD

COMMENTS:

Total Purge Volume: 8000 mL

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 1Q11 GW PROJECT NUMBER: 21562593.00003 FIELD PERSONNEL: N Sutton / K Kinst

DATE: 1/25/11 WEATHER: N20°E, overcast

MONITORING WELL ID: MW-13 SAMPLE ID: MW13-ROX-012511

INITIAL DATA

Well Diameter: 2 in
Total Well Depth (btoc): 35.82 ft
Depth to Water (btoc): 24.55 ft
Depth to LNAPL/DNAPL (btoc): — ft
Depth to Top of Screen (btoc): 25.57 ft
Screen Length): 10 ft

Water Column Height (do not include LNAPL or DNAPL): 11.27 ft btoc
If Depth to Top of Screen is > Depth to Water AND Screen Length is ≥4 feet,
Place Pump at: Total Well Depth – 0.5 (Screen Length + DNAPL Column Height) = 30.32 ft btoc
If Depth to Top of Screen is < Depth to Water AND Water Column Height and Screen Length are ≥ 4ft,
Place Pump at: Total Well Depth – (0.5 X Water Column Height + DNAPL Column Height) = — ft btoc
If Screen Length and/or water column height is < 4 ft, Place Pump at: Total Well Depth - 2 ft = — ft btoc

Volume of Flow Through Cell): 80[illegible] ml
Minimum Purge Volume = (3 x Flow Cell Volume): 240 ml
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 0.0 ppm

PURGE DATA Pump Type: SS Bladder Pump

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Temp (°C)	Cond. (mS/cm)	Turbidity (NTUs)	DO (mg/L)	ORP (mV)
0	1004	24.55	cloudy	hydrocarbon	6.55	16.01	1.147	192.2	0.02	49
800	1008	24.55			6.44	17.18	1.564	218	0.00	-212
1600	1012				6.44	17.30	1.675	280	0.05	-45
2400	1016				6.44	17.44	1.682	250	0.00	-49
3200	1020				6.44	17.66	1.678	229	-0.02	-59
4000	1024				6.40	17.79	1.659	185	-0.03	-63
4800	1028				6.47	17.88	1.631	155	-0.06	-68
5600	1032				6.48	17.72	1.610	128	-0.07	-70
6400	1036	24.55			6.49	17.68	1.550	79	-0.07	-74
7200	1040				6.50	17.74	1.533	64	-0.08	-74
8000	1044				6.60	17.82	1.493	52	-0.09	-76
8800	1048				6.51	17.56	1.448	34	-0.09	-76
9600	1052				6.51	17.57	1.423	32	-0.09	-78
10200	1056				6.51	17.58	1.398	29	-0.09	-77
11000	1062		Clearing		6.52	17.32	1.367	20.2	-0.10	-82

Start Time: 1004
Stop Time: ~~1125/11~~ 1106

Elapsed Time (min): 62 min
Average Purge Rate (mL/min): 200ml/m

Water Quality Meter ID: TROLL 9500
Date Calibrated: 1/25/11

SAMPLING DATA

Sample Date: 1/25/11
Sample Time: 1110
Lab Analysis: VOC, SVOC
Sample Method: Bladder Pump / Low Flow
Sample Flow Rate (mL/min): 200ml/min
QA/QC Samples: MW13-ROX-D12511EB
VOA Vials, No Headspace ☒ Initials: [illegible]

COMMENTS:

Total Purge Volume: 1800 mL

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana **PROJECT NUMBER:** 21562893 **FIELD PERSONNEL:** N. Salem / K Hirsh

DATE: 1/25/14 **MONITORING WELL ID:** MW13 - ROX-0125Y

WATER QUALITY METER: Troll 9500

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Temp (°C)	Cond. (mS/cm)	Turbidity (NTUs)	DO (mg/L)	ORP (mV)
11800	1106	24.55	Clear	hydrocarb	6.52	17.78	1.379	19.2	0.10	-82

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 1Q11 GW **PROJECT NUMBER:** 21562593.00003 **FIELD PERSONNEL:** K. Hurst / N. Sartan

DATE: 1/24/11 **WEATHER:** Sunny, 38°F

MONITORING WELL ID: P-54 **SAMPLE ID:** P54-ROX-012411

INITIAL DATA

Well Diameter): 2 in
Total Well Depth (btoc): 63.00 ft
Depth to Water (btoc): 37.32 ft
Depth to LNAPL/DNAPL (btoc): – ft
Depth to Top of Screen (btoc): 38.00 ft
Screen Length): 25 ft

Water Column Height (do not include LNAPL or DNAPL): 25.68 ft btoc
If Depth to Top of Screen is > Depth to Water AND Screen Length is ≥4 feet,
Place Pump at: Total Well Depth – 0.5 (Screen Length + DNAPL Column Height) = 50.50 ft btoc
If Depth to Top of Screen is < Depth to Water AND Water Column Height and Screen Length are ≥ 4ft,
Place Pump at: Total Well Depth – (0.5 X Water Column Height + DNAPL Column Height) = _____ ft btoc
If Screen Length and/or water column height is < 4 ft, Place Pump at: Total Well Depth - 2 ft = – ft btoc

Volume of Flow Through Cell): 800 ml
Minimum Purge Volume = (3 x Flow Cell Volume): 2400 ml
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 3.1 ppm

PURGE DATA

Pump Type: SS Bladder Pump

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Temp (°C)	Cond. (mS/cm)	Turbidity (NTUs)	DO (mg/L)	ORP (mV)
0	1424	37.32	Clear	None	6.76	13.73	1.333	11.9	1.56	43
800	1428	↓	↓	↓	6.74	14.02	1.264	14.2	1.43	45
1600	1432				6.72	14.31	1.164	20.1	1.32	48
2400	1436				6.70	14.44	1.100	27.8	1.29	50
3200	1440				6.70	14.45	0.9631	28.2	1.28	52
4000	1444				6.69	14.45	0.9659	27.9	1.28	54
4800	1448				6.69	14.47	0.9696	25.4	1.29	56

Start Time: 1424
Stop Time: 1448
Elapsed Time (min): 24 min
Average Purge Rate (mL/min): 200 ml/min
Water Quality Meter ID: TROLL 9500
Date Calibrated: 1/24/11

SAMPLING DATA

Sample Date: 1/24/11
Sample Time: 1455
Lab Analysis: VOC, SVOC
Sample Method: Bladder Pump / Low Flow
Sample Flow Rate (mL/min): 200 ml/min
QA/QC Samples: None
VOA Vials, No Headspace ☒ Initials: KH

COMMENTS:

Total Purge Volume: 4800 mL

SEE LAST PAGE TABLE FOR NOTES.

ROXANA 1Q11 SAMPLING

Well	Date	Well Diam. (inches)	DTB (ft btoc)	DTW (ft btoc)	Packer Depth (ft btoc)	Ht of H2O (ft)[1]	Well Volume (gal)[2]	Target Purge Volume (gal)[3]	Actual Purge Volume (gal)	Sample Time	pH	Temp (C)	Cond (mS/cm)	Turbidity (Ntu)	QA/QC or NOTES
NORTH PROPERTY															
P-93A	1/26	2	63.17	41.22	N/A	21.95	3.58	10.73	~~20~~ 12	~~1159~~	~~6.168~~	~~16.16~~	~~2.517~~	~~128~~	~~[redacted]~~ (KL)
P-93B	1/26	2	76.03	41.27	N/A	34.76	5.67	16.99	20	1055	6.69	16.44	1.377	1.2	MS/MSD
P-93C	1/26	2	96.26	41.16	80.30	~~8.98~~ 15.96 (KL)	~~26.7~~ 2.88.90	26.9~~8~~	27	1120	7.14	14.51	1.832	0.5	
P-93D	1/24	2	127.44	41.07	119.25	~~9.38~~	~~14.37~~	42.23	NS	NS	NS	NS	NS	NS	NS	well compromised

~~47.0~~ (KL) ~~42.23~~
86.37

NOTES:
1) **Ht of H2O** = DTB - DTW
2) **Well Volume** [for 2" wells] = Ht of H2O (0.163 gal/ft)
3) **Purge Volume** = 3 x Well Volume

APPENDIX B

Data Review Sheets & Laboratory Analytical Reports

Roxana Groundwater Quarterly – 1st Quarter 2011

Laboratory SDG: M97264

Data Reviewer: Wendy Buchman

Peer Reviewer: Elizabeth Kunkel

Date Reviewed: 2/21/2011

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review 2008

Sample Identification	Sample Identification
MW1-ROX-011711	MW2-ROX-011711
MW3-ROX-011811	MW4-ROX-011811
MW5-ROX-011811	TB-ROX-011711

1.0 Data Package Completeness

Were all items delivered as specified in the QAPP and COC as appropriate?

Yes

2.0 Laboratory Case Narrative \ Cooler Receipt Form

Were problems noted in the laboratory case narrative or cooler receipt form?

Yes, the laboratory case narrative indicated SVOC LCS recovery was outside evaluation criteria for 4-chloroaniline. Although not indicated in the laboratory case narrative, methylene chloride was detected in the trip blank. Sample MW2-ROX-011711 was analyzed at dilution due to ethyl benzene and bis(2-ethylhexyl phthalate) having exceeded the calibration range of the instrument. The compounds ethyl benzene and bis(2-ethylhexyl phthalate were reported from the second run; all other compounds were reported from the original analysis. These issues are addressed further in the appropriate sections below.

The cooler receipt form indicated that samples were received by the laboratory at 1.1ºC which was outside the 4ºC ± 2ºC criteria. The samples were received in good condition; therefore, no qualification of data was required. The cooler receipt form erroneously indicated N/A for the quality control/preservation questions, trip blank present in cooler and trip blank listed on the COC. A trip blank was included in the cooler and was listed on the COC; URS instructed the laboratory to analyze the trip blank for VOCs.

3.0 Holding Times

Were samples extracted/analyzed within applicable limits?

Yes

4.0 Blank Contamination

Were any analytes detected in the Method Blanks, Field Blanks or Trip Blanks?

Yes

Blank ID	Parameter	Analyte	Concentration/Amount
TB-ROX-011711	VOCs	Methylene chloride	0.86 µg/L

Analytical data that were reported non-detect or at concentrations greater than five times (5X) the associated blank concentration did not require qualification. No qualification of data was required.

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

No

LCS ID	Parameter	Analyte	LCS Recovery	LCS Criteria
OP23913-BS	SVOCs	4-Chloroaniline	**29**	40-130

Analytical data that required qualification based on LCS data are included in the table below.

Field ID	Parameter	Analyte	Qualification
MW1-ROX-011711	SVOCs	4-Chloroaniline	**UJ**
MW2-ROX-011711	SVOCs	4-Chloroaniline	**UJ**
MW3-ROX-011711	SVOCs	4-Chloroaniline	**UJ**
MW4-ROX-011711	SVOCs	4-Chloroaniline	**UJ**
MW5-ROX-011711	SVOCs	4-Chloroaniline	**UJ**

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

Yes

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

Were MS/MSD samples analyzed as part of this SDG?

No

8.0 Internal Standard (IS) Recoveries

Were internal standard area recoveries within evaluation criteria?

Yes

9.0 Laboratory Duplicate Results

Were laboratory duplicate samples collected as part of this SDG?

No

10.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

No

11.0 Sample Dilutions

For samples that were diluted and nondetect, were undiluted results also reported?

Not applicable; analytes were detected in samples that were diluted.

12.0 Additional Qualifications

Were additional qualifications applied?

Yes, professional judgment was used to qualify the common laboratory contaminant acetone reported at concentrations greater than two times (2X) the reporting limit (RL), since acetone is not representative of site conditions.

Sample ID	Analyte	New RL	Qualification	Comment
MW1-ROX-011711	Acetone	39.0	**U**	Professional Judgment
MW5-ROX-011811	Acetone	34.4	**U**	Professional Judgment

New England ACCUTEST LABORATORIES

02/18/11

Technical Report for

Shell Oil

URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

SAP#340061

Accutest Job Number: M97264

Sampling Dates: 01/17/11 - 01/18/11

Reviewed 2/21/2011

Report to:

URS Corporation

Elizabeth_Kunkel@URSCorp.com

ATTN: Elizabeth Kunkel

Total number of pages in report: **58**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Reza Tand
Lab Director

Client Service contact: Kristen Blanchard 508-481-6200

Certifications: MA (M-MA136,SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) ME (MA00136) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO MN (11546AA) NC (653) IL (002337) ISO 17025:2005 (L2235)

Test results relate only to samples analyzed.

Sections: 1 2 3 4 5 6

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1

Sample Summary

Shell Oil

Job No: M97264

URSMOSTL:97216640 170 East Rand Avenue Hartford, IL
Project No: SAP#340061

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
M97264-1	01/17/11	12:25	NSKH	01/19/11	AQ	Ground Water	MW1-ROX-011711
M97264-2	01/17/11	16:55	NSKH	01/19/11	AQ	Ground Water	MW2-ROX-011711
M97264-3	01/18/11	10:50	NSKH	01/19/11	AQ	Ground Water	MW3-ROX-011811
M97264-4	01/18/11	13:35	NSKH	01/19/11	AQ	Ground Water	MW4-ROX-011811
M97264-5	01/18/11	15:55	NSKH	01/19/11	AQ	Ground Water	MW5-ROX-011811
M97264-6	01/17/11	00:00	NSKH	01/19/11	AQ	Trip Blank Water	TB-ROX-011711

ACCUTEST Laboratories

2

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	Shell Oil	**Job No**	M97264
Site:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL	**Report Date**	2/4/2011 2:24:26 PM

5 Sample(s), 1 Trip Blank were collected on between 01/17/2011 and 01/18/2011 and were received at Accutest on 01/19/2011 properly preserved, at 1.8 Deg. C and intact. These Samples received an Accutest job number of M97264. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix AQ **Batch ID:** MSE2163

- All samples were analyzed within the recommended method holding time.
- Sample(s) M97291-1MS, M97291-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- MS/MSD Recovery(s) for Methyl Tert Butyl Ether are outside control limits. Outside control limits due to high level in sample relative to spike amount.
- Matrix Spike Duplicate Recovery(s) for Isopropylbenzene are outside control limits. Outside control limits due to possible matrix interference. Refer to Blank Spike.
- M97291-1MS for Dichlorodifluoromethane: Outside control limits due to possible matrix interference. Refer to Blank Spike.

Matrix AQ **Batch ID:** MSE2165

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M97309-5MS, M97309-5MSD were used as the QC samples indicated.
- MS/MSD Recovery(s) for m,p-Xylene, Toluene are outside control limits. Outside control limits due to high level in sample relative to spike amount.

Extractables by GCMS By Method SW846 8270C

Matrix AQ **Batch ID:** OP23913

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M97236-1MS, M97236-1MSD were used as the QC samples indicated.
- Blank Spike Recovery(s) for 4-Chloroaniline are outside control limits. Blank Spike meets program technical requirements.
- OP23913-MS/MSD for 4-Chloroaniline: Outside control limits. Blank Spike meets program technical requirements.

The Accutest Laboratories of New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety.The Accutest Laboratories of NE, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report(M97264).

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW1-ROX-011711		
Lab Sample ID:	M97264-1	Date Sampled:	01/17/11
Matrix:	AQ - Ground Water	Date Received:	01/19/11
Method:	SW846 8260B	Percent Solids:	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E51217.D	1	01/24/11	TD	n/a	n/a	MSE2163
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	~~39.0~~ 5.0 ND	~~5.0~~ 39.0	4.6	ug/l	"U"
71-43-2	Benzene	ND	0.50	0.35	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.52	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.91	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.62	ug/l	
75-25-2	Bromoform	ND	1.0	0.73	ug/l	
74-83-9	Bromomethane	ND	2.0	0.95	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.1	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.49	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.37	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.53	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.35	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.42	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.61	ug/l	
75-00-3	Chloroethane	ND	2.0	0.76	ug/l	
67-66-3	Chloroform	ND	1.0	0.72	ug/l	
74-87-3	Chloromethane	ND	2.0	0.81	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.58	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.67	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.3	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.86	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.74	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.77	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.81	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.61	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.63	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.74	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.70	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.66	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.74	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.83	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.73	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW1-ROX-011711		
Lab Sample ID:	M97264-1	Date Sampled:	01/17/11
Matrix:	AQ - Ground Water	Date Received:	01/19/11
Method:	SW846 8260B	Percent Solids:	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
594-20-7	2,2-Dichloropropane	ND	5.0	0.44	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.34	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.23	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.61	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.56	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.51	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.45	ug/l	
1634-04-4	Methyl Tert Butyl Ether	3.2	1.0	0.54	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.94	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.75	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.43	ug/l	
100-42-5	Styrene	ND	5.0	0.68	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.64	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.89	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.39	ug/l	
108-88-3	Toluene	ND	1.0	0.74	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.57	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.35	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.72	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.49	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.47	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.61	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.62	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.51	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.51	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.86	ug/l	
	m,p-Xylene	ND	1.0	0.62	ug/l	
95-47-6	o-Xylene	1.3	1.0	0.56	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	112%		70-130%
2037-26-5	Toluene-D8	114%		70-130%
460-00-4	4-Bromofluorobenzene	109%		70-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW1-ROX-011711		
Lab Sample ID:	M97264-1	Date Sampled:	01/17/11
Matrix:	AQ - Ground Water	Date Received:	01/19/11
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I70137.D	1	01/29/11	PR	01/20/11	OP23913	MSI2468
Run #2							

	Initial Volume	Final Volume
Run #1	800 ml	1.0 ml
Run #2		

ABN PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	13	0.96	ug/l	
95-57-8	2-Chlorophenol	ND	6.3	0.85	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	13	0.72	ug/l	
120-83-2	2,4-Dichlorophenol	ND	13	0.87	ug/l	
105-67-9	2,4-Dimethylphenol	ND	13	2.7	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	3.1	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	13	6.3	ug/l	
95-48-7	2-Methylphenol	ND	13	0.60	ug/l	
	3&4-Methylphenol	ND	13	0.79	ug/l	
88-75-5	2-Nitrophenol	ND	13	0.82	ug/l	
100-02-7	4-Nitrophenol	ND	25	6.3	ug/l	
87-86-5	Pentachlorophenol	ND	13	4.1	ug/l	
108-95-2	Phenol	ND	6.3	2.6	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	13	0.50	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	13	0.47	ug/l	
83-32-9	Acenaphthene	ND	6.3	0.42	ug/l	
208-96-8	Acenaphthylene	ND	6.3	1.6	ug/l	
62-53-3	Aniline	ND	13	0.57	ug/l	
120-12-7	Anthracene	ND	6.3	0.34	ug/l	
56-55-3	Benzo(a)anthracene	ND	6.3	0.34	ug/l	
50-32-8	Benzo(a)pyrene	ND	6.3	0.28	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	6.3	0.34	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	6.3	0.77	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	6.3	0.37	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	6.3	0.40	ug/l	
85-68-7	Butyl benzyl phthalate	ND	6.3	0.51	ug/l	
91-58-7	2-Chloronaphthalene	ND	6.3	0.38	ug/l	
106-47-8	4-Chloroaniline	ND	13	0.72	ug/l	"UJ"
218-01-9	Chrysene	ND	6.3	0.28	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	6.3	0.44	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	6.3	0.29	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	6.3	0.26	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

wdb 2/2/11

Report of Analysis

Client Sample ID:	MW1-ROX-011711		
Lab Sample ID:	M97264-1	**Date Sampled:**	01/17/11
Matrix:	AQ - Ground Water	**Date Received:**	01/19/11
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

ABN PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
7005-72-3	4-Chlorophenyl phenyl ether	ND	6.3	0.77	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	13	1.6	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	13	0.42	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	6.3	3.1	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	6.3	0.31	ug/l	
132-64-9	Dibenzofuran	ND	6.3	0.39	ug/l	
84-74-2	Di-n-butyl phthalate	ND	6.3	0.42	ug/l	
117-84-0	Di-n-octyl phthalate	ND	6.3	0.42	ug/l	
84-66-2	Diethyl phthalate	ND	6.3	0.77	ug/l	
131-11-3	Dimethyl phthalate	ND	6.3	1.6	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.5	0.61	ug/l	
206-44-0	Fluoranthene	ND	6.3	0.27	ug/l	
86-73-7	Fluorene	ND	6.3	0.36	ug/l	
118-74-1	Hexachlorobenzene	ND	6.3	0.20	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	13	3.1	ug/l	
67-72-1	Hexachloroethane	ND	6.3	0.54	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	6.3	0.36	ug/l	
78-59-1	Isophorone	ND	6.3	0.59	ug/l	
91-57-6	2-Methylnaphthalene	ND	6.3	0.38	ug/l	
88-74-4	2-Nitroaniline	ND	13	0.42	ug/l	
99-09-2	3-Nitroaniline	ND	13	0.40	ug/l	
100-01-6	4-Nitroaniline	ND	13	0.42	ug/l	
91-20-3	Naphthalene	ND	6.3	0.41	ug/l	
98-95-3	Nitrobenzene	ND	6.3	0.38	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	6.3	0.51	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	6.3	0.77	ug/l	
85-01-8	Phenanthrene	ND	6.3	0.32	ug/l	
129-00-0	Pyrene	ND	6.3	0.31	ug/l	
110-86-1	Pyridine	ND	13	0.63	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	48%		15-110%
4165-62-2	Phenol-d5	32%		15-110%
118-79-6	2,4,6-Tribromophenol	69%		15-110%
4165-60-0	Nitrobenzene-d5	75%		30-130%
321-60-8	2-Fluorobiphenyl	74%		30-130%
1718-51-0	Terphenyl-d14	82%		30-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW2-ROX-011711		
Lab Sample ID:	M97264-2	Date Sampled:	01/17/11
Matrix:	AQ - Ground Water	Date Received:	01/19/11
Method:	SW846 8260B	Percent Solids:	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E51218.D	1	01/24/11	TD	n/a	n/a	MSE2163
Run #2	E51268.D	5	01/25/11	TD	n/a	n/a	MSE2165

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	4.6	ug/l	
71-43-2	Benzene	294	0.50	0.35	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.52	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.91	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.62	ug/l	
75-25-2	Bromoform	ND	1.0	0.73	ug/l	
74-83-9	Bromomethane	ND	2.0	0.95	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.1	ug/l	
104-51-8	n-Butylbenzene	7.8	5.0	0.49	ug/l	
135-98-8	sec-Butylbenzene	4.7	5.0	0.37	ug/l	J
98-06-6	tert-Butylbenzene	ND	5.0	0.53	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.35	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.42	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.61	ug/l	
75-00-3	Chloroethane	7.7	2.0	0.76	ug/l	
67-66-3	Chloroform	ND	1.0	0.72	ug/l	
74-87-3	Chloromethane	1.9	2.0	0.81	ug/l	J
95-49-8	o-Chlorotoluene	ND	5.0	0.58	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.67	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.3	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.86	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.74	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.77	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.81	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.61	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.63	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.74	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.70	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.66	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.74	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.83	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.73	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW2-ROX-011711		
Lab Sample ID:	M97264-2	Date Sampled:	01/17/11
Matrix:	AQ - Ground Water	Date Received:	01/19/11
Method:	SW846 8260B	Percent Solids:	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
594-20-7	2,2-Dichloropropane	ND	5.0	0.44	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.34	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.23	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.23	ug/l	
100-41-4	Ethylbenzene	740 [a]	5.0	3.1	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.56	ug/l	
98-82-8	Isopropylbenzene	61.7	5.0	0.51	ug/l	
99-87-6	p-Isopropyltoluene	3.2	5.0	0.45	ug/l	J
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.54	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.94	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.75	ug/l	
103-65-1	n-Propylbenzene	65.2	5.0	0.43	ug/l	
100-42-5	Styrene	ND	5.0	0.68	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.64	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.89	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.39	ug/l	
108-88-3	Toluene	737 [a]	5.0	3.7	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.57	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.35	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.72	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.49	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.47	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.61	ug/l	
95-63-6	1,2,4-Trimethylbenzene	279	5.0	0.62	ug/l	
108-67-8	1,3,5-Trimethylbenzene	74.4	5.0	0.51	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.51	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.86	ug/l	
	m,p-Xylene	892 [a]	5.0	3.1	ug/l	
95-47-6	o-Xylene	191	1.0	0.56	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%	105%	70-130%
2037-26-5	Toluene-D8	111%	112%	70-130%
460-00-4	4-Bromofluorobenzene	111%	109%	70-130%

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW2-ROX-011711		
Lab Sample ID:	M97264-2	Date Sampled:	01/17/11
Matrix:	AQ - Ground Water	Date Received:	01/19/11
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I70138.D	1	01/29/11	PR	01/20/11	OP23913	MSI2468
Run #2	I70189.D	5	02/01/11	PR	01/20/11	OP23913	MSI2471

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2	1050 ml	1.0 ml

ABN PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	8.2	9.5	0.73	ug/l	J
95-57-8	2-Chlorophenol	ND	4.8	0.65	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	9.5	0.54	ug/l	
120-83-2	2,4-Dichlorophenol	ND	9.5	0.66	ug/l	
105-67-9	2,4-Dimethylphenol	2.2	9.5	2.0	ug/l	J
51-28-5	2,4-Dinitrophenol	ND	19	2.4	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	9.5	4.8	ug/l	
95-48-7	2-Methylphenol	2.8	9.5	0.46	ug/l	J
	3&4-Methylphenol	3.5	9.5	0.60	ug/l	J
88-75-5	2-Nitrophenol	ND	9.5	0.63	ug/l	
100-02-7	4-Nitrophenol	ND	19	4.8	ug/l	
87-86-5	Pentachlorophenol	ND	9.5	3.2	ug/l	
108-95-2	Phenol	ND	4.8	2.0	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	9.5	0.38	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	9.5	0.36	ug/l	
83-32-9	Acenaphthene	ND	4.8	0.32	ug/l	
208-96-8	Acenaphthylene	ND	4.8	1.2	ug/l	
62-53-3	Aniline	ND	9.5	0.43	ug/l	
120-12-7	Anthracene	ND	4.8	0.26	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	0.26	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	0.22	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	0.26	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.8	0.58	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.8	0.28	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	4.8	0.30	ug/l	
85-68-7	Butyl benzyl phthalate	ND	4.8	0.39	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.8	0.29	ug/l	
106-47-8	4-Chloroaniline WJ	ND	9.5	0.55	ug/l	"WJ"
218-01-9	Chrysene	ND	4.8	0.21	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	4.8	0.33	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.8	0.22	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	4.8	0.20	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

WGB 2/2/11

Report of Analysis

Client Sample ID:	MW2-ROX-011711		
Lab Sample ID:	M97264-2	Date Sampled:	01/17/11
Matrix:	AQ - Ground Water	Date Received:	01/19/11
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

ABN PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
7005-72-3	4-Chlorophenyl phenyl ether	ND	4.8	0.58	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	9.5	1.2	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	9.5	0.32	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	4.8	2.4	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	0.24	ug/l	
132-64-9	Dibenzofuran	ND	4.8	0.30	ug/l	
84-74-2	Di-n-butyl phthalate	ND	4.8	0.32	ug/l	
117-84-0	Di-n-octyl phthalate	ND	4.8	0.32	ug/l	
84-66-2	Diethyl phthalate	ND	4.8	0.58	ug/l	
131-11-3	Dimethyl phthalate	ND	4.8	1.2	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	250 [a]	9.5	2.3	ug/l	
206-44-0	Fluoranthene	ND	4.8	0.21	ug/l	
86-73-7	Fluorene	ND	4.8	0.28	ug/l	
118-74-1	Hexachlorobenzene	ND	4.8	0.15	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	9.5	2.4	ug/l	
67-72-1	Hexachloroethane	ND	4.8	0.41	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	0.27	ug/l	
78-59-1	Isophorone	ND	4.8	0.45	ug/l	
91-57-6	2-Methylnaphthalene	6.5	4.8	0.29	ug/l	
88-74-4	2-Nitroaniline	ND	9.5	0.32	ug/l	
99-09-2	3-Nitroaniline	ND	9.5	0.31	ug/l	
100-01-6	4-Nitroaniline	ND	9.5	0.32	ug/l	
91-20-3	Naphthalene	31.2	4.8	0.31	ug/l	
98-95-3	Nitrobenzene	ND	4.8	0.29	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	4.8	0.39	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.8	0.58	ug/l	
85-01-8	Phenanthrene	ND	4.8	0.24	ug/l	
129-00-0	Pyrene	ND	4.8	0.24	ug/l	
110-86-1	Pyridine	ND	9.5	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	33%	33%	15-110%
4165-62-2	Phenol-d5	20%	23%	15-110%
118-79-6	2,4,6-Tribromophenol	59%	72%	15-110%
4165-60-0	Nitrobenzene-d5	58%	67%	30-130%
321-60-8	2-Fluorobiphenyl	60%	68%	30-130%
1718-51-0	Terphenyl-d14	60%	70%	30-130%

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW3-ROX-011811		
Lab Sample ID:	M97264-3	Date Sampled:	01/18/11
Matrix:	AQ - Ground Water	Date Received:	01/19/11
Method:	SW846 8260B	Percent Solids:	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E51219.D	1	01/24/11	TD	n/a	n/a	MSE2163
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	4.6	ug/l	
71-43-2	Benzene	0.56	0.50	0.35	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.52	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.91	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.62	ug/l	
75-25-2	Bromoform	ND	1.0	0.73	ug/l	
74-83-9	Bromomethane	ND	2.0	0.95	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.1	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.49	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.37	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.53	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.35	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.42	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.61	ug/l	
75-00-3	Chloroethane	0.77	2.0	0.76	ug/l	J
67-66-3	Chloroform	ND	1.0	0.72	ug/l	
74-87-3	Chloromethane	0.82	2.0	0.81	ug/l	J
95-49-8	o-Chlorotoluene	ND	5.0	0.58	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.67	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.3	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.86	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.74	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.77	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.81	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.61	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.63	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.74	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.70	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.66	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.74	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.83	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.73	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW3-ROX-011811		
Lab Sample ID:	M97264-3	Date Sampled:	01/18/11
Matrix:	AQ - Ground Water	Date Received:	01/19/11
Method:	SW846 8260B	Percent Solids:	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
594-20-7	2,2-Dichloropropane	ND	5.0	0.44	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.34	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.23	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.23	ug/l	
100-41-4	Ethylbenzene	0.82	1.0	0.61	ug/l	J
87-68-3	Hexachlorobutadiene	ND	5.0	0.56	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.51	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.45	ug/l	
1634-04-4	Methyl Tert Butyl Ether	2.1	1.0	0.54	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.94	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.75	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.43	ug/l	
100-42-5	Styrene	ND	5.0	0.68	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.64	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.89	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.39	ug/l	
108-88-3	Toluene	ND	1.0	0.74	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.57	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.35	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.72	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.49	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.47	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.61	ug/l	
95-63-6	1,2,4-Trimethylbenzene	0.85	5.0	0.62	ug/l	J
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.51	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.51	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.86	ug/l	
	m,p-Xylene	1.2	1.0	0.62	ug/l	
95-47-6	o-Xylene	1.4	1.0	0.56	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%		70-130%
2037-26-5	Toluene-D8	111%		70-130%
460-00-4	4-Bromofluorobenzene	112%		70-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW3-ROX-011811		
Lab Sample ID:	M97264-3	Date Sampled:	01/18/11
Matrix:	AQ - Ground Water	Date Received:	01/19/11
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I70139.D	1	01/29/11	PR	01/20/11	OP23913	MSI2468
Run #2							

	Initial Volume	Final Volume
Run #1	940 ml	1.0 ml
Run #2		

ABN PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	11	0.82	ug/l	
95-57-8	2-Chlorophenol	ND	5.3	0.73	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.61	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.74	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	2.3	ug/l	
51-28-5	2,4-Dinitrophenol	ND	21	2.7	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	5.3	ug/l	
95-48-7	2-Methylphenol	ND	11	0.51	ug/l	
	3&4-Methylphenol	ND	11	0.67	ug/l	
88-75-5	2-Nitrophenol	ND	11	0.70	ug/l	
100-02-7	4-Nitrophenol	ND	21	5.3	ug/l	
87-86-5	Pentachlorophenol	ND	11	3.5	ug/l	
108-95-2	Phenol	ND	5.3	2.2	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.43	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.40	ug/l	
83-32-9	Acenaphthene	ND	5.3	0.36	ug/l	
208-96-8	Acenaphthylene	ND	5.3	1.3	ug/l	
62-53-3	Aniline	ND	11	0.48	ug/l	
120-12-7	Anthracene	ND	5.3	0.29	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.3	0.29	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.3	0.24	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.3	0.29	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.3	0.65	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.3	0.31	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.3	0.34	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.3	0.43	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.3	0.32	ug/l	
106-47-8	4-Chloroaniline UJ	ND	11	0.61	ug/l UJ	
218-01-9	Chrysene	ND	5.3	0.24	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.3	0.37	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.3	0.25	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.3	0.22	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

WGB 2/21/11

Report of Analysis

Client Sample ID:	MW3-ROX-011811		
Lab Sample ID:	M97264-3	Date Sampled:	01/18/11
Matrix:	AQ - Ground Water	Date Received:	01/19/11
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

ABN PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.3	0.65	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	1.3	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.36	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.3	2.7	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.3	0.26	ug/l	
132-64-9	Dibenzofuran	ND	5.3	0.34	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.3	0.36	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.3	0.36	ug/l	
84-66-2	Diethyl phthalate	ND	5.3	0.65	ug/l	
131-11-3	Dimethyl phthalate	ND	5.3	1.3	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	0.62	2.1	0.52	ug/l	J
206-44-0	Fluoranthene	ND	5.3	0.23	ug/l	
86-73-7	Fluorene	ND	5.3	0.31	ug/l	
118-74-1	Hexachlorobenzene	ND	5.3	0.17	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	2.7	ug/l	
67-72-1	Hexachloroethane	ND	5.3	0.46	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.3	0.31	ug/l	
78-59-1	Isophorone	ND	5.3	0.50	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.3	0.33	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.36	ug/l	
99-09-2	3-Nitroaniline	ND	11	0.34	ug/l	
100-01-6	4-Nitroaniline	ND	11	0.36	ug/l	
91-20-3	Naphthalene	ND	5.3	0.35	ug/l	
98-95-3	Nitrobenzene	ND	5.3	0.32	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.3	0.43	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.3	0.65	ug/l	
85-01-8	Phenanthrene	ND	5.3	0.27	ug/l	
129-00-0	Pyrene	ND	5.3	0.26	ug/l	
110-86-1	Pyridine	ND	11	0.53	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	42%		15-110%
4165-62-2	Phenol-d5	27%		15-110%
118-79-6	2,4,6-Tribromophenol	62%		15-110%
4165-60-0	Nitrobenzene-d5	67%		30-130%
321-60-8	2-Fluorobiphenyl	67%		30-130%
1718-51-0	Terphenyl-d14	76%		30-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW4-ROX-011811		
Lab Sample ID:	M97264-4	Date Sampled:	01/18/11
Matrix:	AQ - Ground Water	Date Received:	01/19/11
Method:	SW846 8260B	Percent Solids:	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E51220.D	1	01/24/11	TD	n/a	n/a	MSE2163
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	4.6	ug/l	
71-43-2	Benzene	56.7	0.50	0.35	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.52	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.91	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.62	ug/l	
75-25-2	Bromoform	ND	1.0	0.73	ug/l	
74-83-9	Bromomethane	ND	2.0	0.95	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.1	ug/l	
104-51-8	n-Butylbenzene	0.60	5.0	0.49	ug/l	J
135-98-8	sec-Butylbenzene	0.63	5.0	0.37	ug/l	J
98-06-6	tert-Butylbenzene	0.69	5.0	0.53	ug/l	J
75-15-0	Carbon disulfide	ND	5.0	0.35	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.42	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.61	ug/l	
75-00-3	Chloroethane	0.96	2.0	0.76	ug/l	J
67-66-3	Chloroform	ND	1.0	0.72	ug/l	
74-87-3	Chloromethane	ND	2.0	0.81	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.58	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.67	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.3	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.86	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.74	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.77	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.81	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.61	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.63	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.74	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.70	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.66	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.74	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.83	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.73	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW4-ROX-011811		
Lab Sample ID:	M97264-4	Date Sampled:	01/18/11
Matrix:	AQ - Ground Water	Date Received:	01/19/11
Method:	SW846 8260B	Percent Solids:	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
594-20-7	2,2-Dichloropropane	ND	5.0	0.44	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.34	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.23	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.61	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.56	ug/l	
98-82-8	Isopropylbenzene	2.0	5.0	0.51	ug/l	J
99-87-6	p-Isopropyltoluene	ND	5.0	0.45	ug/l	
1634-04-4	Methyl Tert Butyl Ether	7.0	1.0	0.54	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.94	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.75	ug/l	
103-65-1	n-Propylbenzene	2.2	5.0	0.43	ug/l	J
100-42-5	Styrene	ND	5.0	0.68	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.64	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.89	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.39	ug/l	
108-88-3	Toluene	7.1	1.0	0.74	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.57	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.35	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.72	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.49	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.47	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.61	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.62	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.51	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.51	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.86	ug/l	
	m,p-Xylene	6.2	1.0	0.62	ug/l	
95-47-6	o-Xylene	2.1	1.0	0.56	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		70-130%
2037-26-5	Toluene-D8	111%		70-130%
460-00-4	4-Bromofluorobenzene	115%		70-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW4-ROX-011811		
Lab Sample ID:	M97264-4	Date Sampled:	01/18/11
Matrix:	AQ - Ground Water	Date Received:	01/19/11
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I70140.D	1	01/29/11	PR	01/20/11	OP23913	MSI2468
Run #2							

	Initial Volume	Final Volume
Run #1	970 ml	1.0 ml
Run #2		

ABN PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	10	0.79	ug/l	
95-57-8	2-Chlorophenol	ND	5.2	0.70	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.59	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.71	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	2.2	ug/l	
51-28-5	2,4-Dinitrophenol	ND	21	2.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	5.2	ug/l	
95-48-7	2-Methylphenol	ND	10	0.49	ug/l	
	3&4-Methylphenol	ND	10	0.65	ug/l	
88-75-5	2-Nitrophenol	ND	10	0.68	ug/l	
100-02-7	4-Nitrophenol	ND	21	5.2	ug/l	
87-86-5	Pentachlorophenol	ND	10	3.4	ug/l	
108-95-2	Phenol	ND	5.2	2.1	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.41	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.39	ug/l	
83-32-9	Acenaphthene	ND	5.2	0.35	ug/l	
208-96-8	Acenaphthylene	ND	5.2	1.3	ug/l	
62-53-3	Aniline	ND	10	0.47	ug/l	
120-12-7	Anthracene	ND	5.2	0.28	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.2	0.28	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.2	0.23	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.2	0.28	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.2	0.63	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.2	0.30	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.2	0.33	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.2	0.42	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.2	0.31	ug/l	
106-47-8	4-Chloroaniline UJ	ND	10	0.59	ug/l "UJ"	
218-01-9	Chrysene	ND	5.2	0.23	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.2	0.36	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.2	0.24	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.2	0.22	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

WEB 2/24/11

Report of Analysis

Client Sample ID:	MW4-ROX-011811		
Lab Sample ID:	M97264-4	Date Sampled:	01/18/11
Matrix:	AQ - Ground Water	Date Received:	01/19/11
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

ABN PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.2	0.63	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	1.3	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.35	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.2	2.6	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.2	0.25	ug/l	
132-64-9	Dibenzofuran	ND	5.2	0.32	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.2	0.35	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.2	0.35	ug/l	
84-66-2	Diethyl phthalate	ND	5.2	0.63	ug/l	
131-11-3	Dimethyl phthalate	ND	5.2	1.3	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.1	0.50	ug/l	
206-44-0	Fluoranthene	ND	5.2	0.22	ug/l	
86-73-7	Fluorene	ND	5.2	0.30	ug/l	
118-74-1	Hexachlorobenzene	ND	5.2	0.16	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	2.6	ug/l	
67-72-1	Hexachloroethane	ND	5.2	0.44	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.2	0.30	ug/l	
78-59-1	Isophorone	ND	5.2	0.49	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.2	0.32	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.34	ug/l	
99-09-2	3-Nitroaniline	ND	10	0.33	ug/l	
100-01-6	4-Nitroaniline	ND	10	0.34	ug/l	
91-20-3	Naphthalene	ND	5.2	0.34	ug/l	
98-95-3	Nitrobenzene	ND	5.2	0.31	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.2	0.42	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.2	0.63	ug/l	
85-01-8	Phenanthrene	ND	5.2	0.26	ug/l	
129-00-0	Pyrene	ND	5.2	0.25	ug/l	
110-86-1	Pyridine	ND	10	0.52	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	46%		15-110%
4165-62-2	Phenol-d5	29%		15-110%
118-79-6	2,4,6-Tribromophenol	73%		15-110%
4165-60-0	Nitrobenzene-d5	74%		30-130%
321-60-8	2-Fluorobiphenyl	73%		30-130%
1718-51-0	Terphenyl-d14	88%		30-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW5-ROX-011811		
Lab Sample ID:	M97264-5	Date Sampled:	01/18/11
Matrix:	AQ - Ground Water	Date Received:	01/19/11
Method:	SW846 8260B	Percent Solids:	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E51221.D	1	01/24/11	TD	n/a	n/a	MSE2163
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	~~34.4~~ 0.0 ND ~~25.0~~ 34.4		4.6	ug/l	U
71-43-2	Benzene	4.8	0.50	0.35	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.52	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.91	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.62	ug/l	
75-25-2	Bromoform	ND	1.0	0.73	ug/l	
74-83-9	Bromomethane	ND	2.0	0.95	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.1	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.49	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.37	ug/l	
98-06-6	tert-Butylbenzene	1.4	5.0	0.53	ug/l	J
75-15-0	Carbon disulfide	ND	5.0	0.35	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.42	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.61	ug/l	
75-00-3	Chloroethane	ND	2.0	0.76	ug/l	
67-66-3	Chloroform	ND	1.0	0.72	ug/l	
74-87-3	Chloromethane	ND	2.0	0.81	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.58	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.67	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.3	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.86	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.74	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.77	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.81	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.61	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.63	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.74	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.70	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.66	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.74	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.83	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.73	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW5-ROX-011811		
Lab Sample ID:	M97264-5	Date Sampled:	01/18/11
Matrix:	AQ - Ground Water	Date Received:	01/19/11
Method:	SW846 8260B	Percent Solids:	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
594-20-7	2,2-Dichloropropane	ND	5.0	0.44	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.34	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.23	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.61	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.56	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.51	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.45	ug/l	
1634-04-4	Methyl Tert Butyl Ether	6.6	1.0	0.54	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.94	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.75	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.43	ug/l	
100-42-5	Styrene	ND	5.0	0.68	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.64	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.89	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.39	ug/l	
108-88-3	Toluene	ND	1.0	0.74	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.57	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.35	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.72	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.49	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.47	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.61	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.62	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.51	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.51	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.86	ug/l	
	m,p-Xylene	0.87	1.0	0.62	ug/l	J
95-47-6	o-Xylene	1.4	1.0	0.56	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	114%		70-130%
2037-26-5	Toluene-D8	109%		70-130%
460-00-4	4-Bromofluorobenzene	111%		70-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW5-ROX-011811		
Lab Sample ID:	M97264-5	Date Sampled:	01/18/11
Matrix:	AQ - Ground Water	Date Received:	01/19/11
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I70141.D	1	01/29/11	PR	01/20/11	OP23913	MSI2468
Run #2							

	Initial Volume	Final Volume
Run #1	940 ml	1.0 ml
Run #2		

ABN PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	11	0.82	ug/l	
95-57-8	2-Chlorophenol	ND	5.3	0.73	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.61	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.74	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	2.3	ug/l	
51-28-5	2,4-Dinitrophenol	ND	21	2.7	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	5.3	ug/l	
95-48-7	2-Methylphenol	ND	11	0.51	ug/l	
	3&4-Methylphenol	ND	11	0.67	ug/l	
88-75-5	2-Nitrophenol	ND	11	0.70	ug/l	
100-02-7	4-Nitrophenol	ND	21	5.3	ug/l	
87-86-5	Pentachlorophenol	ND	11	3.5	ug/l	
108-95-2	Phenol	ND	5.3	2.2	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.43	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.40	ug/l	
83-32-9	Acenaphthene	ND	5.3	0.36	ug/l	
208-96-8	Acenaphthylene	ND	5.3	1.3	ug/l	
62-53-3	Aniline	ND	11	0.48	ug/l	
120-12-7	Anthracene	ND	5.3	0.29	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.3	0.29	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.3	0.24	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.3	0.29	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.3	0.65	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.3	0.31	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.3	0.34	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.3	0.43	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.3	0.32	ug/l	
106-47-8	4-Chloroaniline WJ	ND	11	0.61	ug/l	"WJ"
218-01-9	Chrysene	ND	5.3	0.24	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.3	0.37	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.3	0.25	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.3	0.22	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

WMB 2/21/11

Report of Analysis

Client Sample ID:	MW5-ROX-011811		
Lab Sample ID:	M97264-5	Date Sampled:	01/18/11
Matrix:	AQ - Ground Water	Date Received:	01/19/11
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

ABN PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.3	0.65	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	1.3	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.36	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.3	2.7	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.3	0.26	ug/l	
132-64-9	Dibenzofuran	ND	5.3	0.34	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.3	0.36	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.3	0.36	ug/l	
84-66-2	Diethyl phthalate	0.90	5.3	0.65	ug/l	J
131-11-3	Dimethyl phthalate	ND	5.3	1.3	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.1	0.52	ug/l	
206-44-0	Fluoranthene	ND	5.3	0.23	ug/l	
86-73-7	Fluorene	ND	5.3	0.31	ug/l	
118-74-1	Hexachlorobenzene	ND	5.3	0.17	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	2.7	ug/l	
67-72-1	Hexachloroethane	ND	5.3	0.46	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.3	0.31	ug/l	
78-59-1	Isophorone	ND	5.3	0.50	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.3	0.33	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.36	ug/l	
99-09-2	3-Nitroaniline	ND	11	0.34	ug/l	
100-01-6	4-Nitroaniline	ND	11	0.36	ug/l	
91-20-3	Naphthalene	ND	5.3	0.35	ug/l	
98-95-3	Nitrobenzene	ND	5.3	0.32	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.3	0.43	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.3	0.65	ug/l	
85-01-8	Phenanthrene	ND	5.3	0.27	ug/l	
129-00-0	Pyrene	ND	5.3	0.26	ug/l	
110-86-1	Pyridine	ND	11	0.53	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	47%		15-110%
4165-62-2	Phenol-d5	29%		15-110%
118-79-6	2,4,6-Tribromophenol	67%		15-110%
4165-60-0	Nitrobenzene-d5	74%		30-130%
321-60-8	2-Fluorobiphenyl	73%		30-130%
1718-51-0	Terphenyl-d14	76%		30-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-ROX-011711		
Lab Sample ID:	M97264-6	Date Sampled:	01/17/11
Matrix:	AQ - Trip Blank Water	Date Received:	01/19/11
Method:	SW846 8260B	Percent Solids:	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E51216.D	1	01/24/11	TD	n/a	n/a	MSE2163
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	4.6	ug/l	
71-43-2	Benzene	ND	0.50	0.35	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.52	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.91	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.62	ug/l	
75-25-2	Bromoform	ND	1.0	0.73	ug/l	
74-83-9	Bromomethane	ND	2.0	0.95	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.1	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.49	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.37	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.53	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.35	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.42	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.61	ug/l	
75-00-3	Chloroethane	ND	2.0	0.76	ug/l	
67-66-3	Chloroform	ND	1.0	0.72	ug/l	
74-87-3	Chloromethane	ND	2.0	0.81	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.58	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.67	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.3	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.86	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.74	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.77	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.81	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.61	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.63	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.74	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.70	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.66	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.74	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.83	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.73	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-ROX-011711		
Lab Sample ID:	M97264-6	Date Sampled:	01/17/11
Matrix:	AQ - Trip Blank Water	Date Received:	01/19/11
Method:	SW846 8260B	Percent Solids:	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
594-20-7	2,2-Dichloropropane	ND	5.0	0.44	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.34	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.23	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.61	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.56	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.51	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.45	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.54	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.94	ug/l	
75-09-2	Methylene chloride	0.86	2.0	0.75	ug/l	J
103-65-1	n-Propylbenzene	ND	5.0	0.43	ug/l	
100-42-5	Styrene	ND	5.0	0.68	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.64	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.89	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.39	ug/l	
108-88-3	Toluene	ND	1.0	0.74	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.57	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.35	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.72	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.49	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.47	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.61	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.62	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.51	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.51	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.86	ug/l	
	m,p-Xylene	ND	1.0	0.62	ug/l	
95-47-6	o-Xylene	ND	1.0	0.56	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	112%		70-130%
2037-26-5	Toluene-D8	115%		70-130%
460-00-4	4-Bromofluorobenzene	110%		70-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Certification Exceptions (IL)
- Chain of Custody
- Sample Tracking Chronicle
- Internal Chain of Custody

Shell Oil Products Chain Of Custody Record

LAB (LOCATION)
☐ KUCO ( )
☐ CALSCIENCE (Accutest Calscience, 495 Technology Ctr W)
☑ other (Marlborough, MA 01752 (508-481-6200))
☐ Lab Vendor # ( )
☐ SPL ( )
Lab Vendor #

Please Check Appropriate Box:
☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SOAOA ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name: WENDY PENNINGTON
PO #
INCIDENT # (ENV SERVICES): 9 7 2 1 0 4 4 0
SAP #: 3 4 0 0 6 1
☐ CHECK IF NO INCIDENT # APPLIES
DATE 1/17/11
PAGE 1 of 1

URS CORPORATION
1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110
WENDY PENNINGTON
314-743-4106 or 341-452-8926 | 314-429-0467
SITE ADDRESS: Street and City: 170 EAST RAND AVENUE – HARTFORD
State: IL
Retainer Quarterly / 21562553.00003
N. SATAM / K. HURST
LAB USE ONLY: M97264

TURNAROUND TIME (CALENDAR DAYS): ☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEKEND
☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:
DELIVERABLES: ☐ LEVEL 1 ☑ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☑ OTHER (SPECIFY) EDD
TEMPERATURE ON RECEIPT C° Cooler #1 Cooler #2 Cooler #3

SPECIAL INSTRUCTIONS OR NOTES:
☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ EXCEL VERIFICATION REQUESTED
☐ EQUIS EDD DISK
QUOTE # PEK120210-14

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE	NO. OF CONT.	VOC 8260B	SVOC 8270C	PID (ppm)	FIELD NOTES: Container PID Readings or Laboratory Notes
-1	MW1-ROX-011711	1/17/11	1225	Water	3 HCl, 2 Unpres	5	✓	✓		
-2	MW2-ROX-011711	1/17/11	1655		3 HCl, 2 Unpres	5	✓	✓		
-3	MW3-ROX-011811	1/18/11	1050		3 HCl, 2 Unpres	5	✓	✓		
-4	MW4-ROX-011811	1/18/11	1330		3 HCl, 2 Unpres	5	✓	✓		
-5	MW5-ROX-011811	1/18/11	1535		3 HCl, 2 Unpres	5	✓	✓		
-6	TB-ROX-011711	1/17/11			2 HCl	2	✓	✓		
										SCM,17A

Relinquished by (Signature)	Received by (Signature)	Date	Time
Satam	FedEx	01/18/11	1730
FedEx		1/19/11	10:15
			1.4, 1.8°

M97264: Chain of Custody
Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: M97264 Client: URS Immediate Client Services Action Required: No

Date / Time Received: 1/19/2011 Delivery Method: Client Service Action Required at Login: No

Project: 170 EAST RAND AVE HARTFORD No. Coolers: 1 Airbill #'s: N/A

Cooler Security	Y or N		Y or N
1. Custody Seals Present:	☑ ☐	3. COC Present:	☑ ☐
2. Custody Seals Intact:	☑ ☐	4. Smpl Dates/Time OK	☑ ☐

Cooler Temperature	Y or N
1. Temp criteria achieved:	☑ ☐
2. Cooler temp verification:	Infared gun
3. Cooler media:	Ice (bag)

Quality Control Preservatio	Y or N	N/A
1. Trip Blank present / cooler:	☐ ☐	☑
2. Trip Blank listed on COC:	☐ ☐	☑
3. Samples preserved properly:	☑ ☐	
4. VOCs headspace free:	☑ ☐	☐

Sample Integrity - Documentation	Y or N
1. Sample labels present on bottles:	☑ ☐
2. Container labeling complete:	☑ ☐
3. Sample container label / COC agree:	☑ ☐

Sample Integrity - Condition	Y or N
1. Sample recvd within HT:	☑ ☐
2. All containers accounted for:	☑ ☐
3. Condition of sample:	Intact

Sample Integrity - Instructions	Y or N	N/A
1. Analysis requested is clear:	☑ ☐	
2. Bottles received for unspecified tests	☐ ☑	
3. Sufficient volume recvd for analysis:	☑ ☐	
4. Compositing instructions clear:	☐ ☐	☑
5. Filtering instructions clear:	☐ ☐	☑

Comments

Accutest Laboratories
V:508.481.6200
495 Technology Center West, Bldg One
F: 508.481.7753
Marlborough, MA
www/accutest.com

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M97264: Chain of Custody
Page 2 of 2

Internal Sample Tracking Chronicle

Shell Oil

Job No: M97264

URSMOSTL:97216640 170 East Rand Avenue Hartford, IL
Project No: SAP#340061

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
M97264-1 Collected: 17-JAN-11 12:25 By: NSKH Received: 19-JAN-11 By: JB MW1-ROX-011711						
M97264-1	SW846 8260B	24-JAN-11 12:55	TD			V8260STD
M97264-1	SW846 8270C	29-JAN-11 15:58	PR	20-JAN-11	CA	AB8270PPL
M97264-2 Collected: 17-JAN-11 16:55 By: NSKH Received: 19-JAN-11 By: JB MW2-ROX-011711						
M97264-2	SW846 8260B	24-JAN-11 13:24	TD			V8260STD
M97264-2	SW846 8260B	25-JAN-11 14:14	TD			V8260STD
M97264-2	SW846 8270C	29-JAN-11 16:29	PR	20-JAN-11	CA	AB8270PPL
M97264-2	SW846 8270C	01-FEB-11 17:58	PR	20-JAN-11	CA	AB8270PPL
M97264-3 Collected: 18-JAN-11 10:50 By: NSKH Received: 19-JAN-11 By: JB MW3-ROX-011811						
M97264-3	SW846 8260B	24-JAN-11 13:53	TD			V8260STD
M97264-3	SW846 8270C	29-JAN-11 17:01	PR	20-JAN-11	CA	AB8270PPL
M97264-4 Collected: 18-JAN-11 13:35 By: NSKH Received: 19-JAN-11 By: JB MW4-ROX-011811						
M97264-4	SW846 8260B	24-JAN-11 14:22	TD			V8260STD
M97264-4	SW846 8270C	29-JAN-11 17:32	PR	20-JAN-11	CA	AB8270PPL
M97264-5 Collected: 18-JAN-11 15:55 By: NSKH Received: 19-JAN-11 By: JB MW5-ROX-011811						
M97264-5	SW846 8260B	24-JAN-11 14:44	TD			V8260STD
M97264-5	SW846 8270C	29-JAN-11 18:03	PR	20-JAN-11	CA	AB8270PPL
M97264-6 Collected: 17-JAN-11 00:00 By: NSKH Received: 19-JAN-11 By: JB TB-ROX-011711						
M97264-6	SW846 8260B	24-JAN-11 12:27	TD			V8260STD

Accutest Internal Chain of Custody

Job Number: M97264
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL
Received: 01/19/11

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
M97264-1.1	Walk In Ref #22	Bijan Jafari	01/20/11 10:02	Retrieve from Storage
M97264-1.1	Bijan Jafari		01/22/11 05:56	Depleted
M97264-1.4	VOC Ref #5	Tamis Dudo	01/24/11 11:38	Retrieve from Storage
M97264-1.4	Tamis Dudo	GCMSE	01/24/11 11:39	Load on Instrument
M97264-1.4	GCMSE	Tamis Dudo	01/25/11 09:42	Unload from Instrument
M97264-1.4	Tamis Dudo	VOC Ref #5	01/27/11 15:18	Return to Storage
M97264-2.2	Walk In Ref #22	Bijan Jafari	01/20/11 10:02	Retrieve from Storage
M97264-2.2	Bijan Jafari		01/22/11 05:56	Depleted
M97264-2.3	VOC Ref #5	Tamis Dudo	01/24/11 11:38	Retrieve from Storage
M97264-2.3	Tamis Dudo	GCMSE	01/24/11 11:39	Load on Instrument
M97264-2.3	GCMSE	Tamis Dudo	01/25/11 09:42	Unload from Instrument
M97264-2.3	Tamis Dudo	VOC Ref #5	01/27/11 15:18	Return to Storage
M97264-2.4	VOC Ref #5	Tamis Dudo	01/25/11 12:31	Retrieve from Storage
M97264-2.4	Tamis Dudo	GCMSE	01/25/11 12:32	Load on Instrument
M97264-2.4	GCMSE	Tamis Dudo	01/26/11 08:53	Unload from Instrument
M97264-2.4	Tamis Dudo	VOC Ref #5	01/27/11 15:18	Return to Storage
M97264-3.2	Walk In Ref #22	Bijan Jafari	01/20/11 10:02	Retrieve from Storage
M97264-3.2	Bijan Jafari		01/22/11 05:56	Depleted
M97264-3.5	VOC Ref #5	Tamis Dudo	01/24/11 11:38	Retrieve from Storage
M97264-3.5	Tamis Dudo	GCMSE	01/24/11 11:39	Load on Instrument
M97264-3.5	GCMSE	Tamis Dudo	01/25/11 09:42	Unload from Instrument
M97264-3.5	Tamis Dudo	VOC Ref #5	01/27/11 15:18	Return to Storage
M97264-4.2	Walk In Ref #22	Bijan Jafari	01/20/11 10:02	Retrieve from Storage
M97264-4.2	Bijan Jafari		01/22/11 05:56	Depleted
M97264-4.5	VOC Ref #5	Tamis Dudo	01/24/11 11:38	Retrieve from Storage
M97264-4.5	Tamis Dudo	GCMSE	01/24/11 11:39	Load on Instrument
M97264-4.5	GCMSE	Tamis Dudo	01/25/11 09:42	Unload from Instrument
M97264-4.5	Tamis Dudo	VOC Ref #5	01/27/11 15:18	Return to Storage
M97264-5.2	Walk In Ref #22	Bijan Jafari	01/20/11 10:02	Retrieve from Storage
M97264-5.2	Bijan Jafari		01/22/11 05:56	Depleted
M97264-5.3	VOC Ref #5	Tamis Dudo	01/24/11 11:38	Retrieve from Storage
M97264-5.3	Tamis Dudo	GCMSE	01/24/11 11:39	Load on Instrument
M97264-5.3	GCMSE	Tamis Dudo	01/25/11 09:42	Unload from Instrument
M97264-5.3	Tamis Dudo	VOC Ref #5	01/27/11 15:18	Return to Storage

Accutest Internal Chain of Custody

Job Number: M97264
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL
Received: 01/19/11

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
M97264-6.2	VOC Ref #5	Tamis Dudo	01/24/11 11:38	Retrieve from Storage
M97264-6.2	Tamis Dudo	GCMSE	01/24/11 11:39	Load on Instrument
M97264-6.2	GCMSE	Tamis Dudo	01/25/11 09:42	Unload from Instrument
M97264-6.2	Tamis Dudo	VOC Ref #5	01/27/11 15:18	Return to Storage

New England ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: M97264
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSE2163-MB	E51215.D	1	01/24/11	TD	n/a	n/a	MSE2163

The QC reported here applies to the following samples: Method: SW846 8260B

M97264-1, M97264-2, M97264-3, M97264-4, M97264-5, M97264-6

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	4.6	ug/l	
71-43-2	Benzene	ND	0.50	0.35	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.52	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.91	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.62	ug/l	
75-25-2	Bromoform	ND	1.0	0.73	ug/l	
74-83-9	Bromomethane	ND	2.0	0.95	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.1	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.49	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.37	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.53	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.35	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.42	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.61	ug/l	
75-00-3	Chloroethane	ND	2.0	0.76	ug/l	
67-66-3	Chloroform	ND	1.0	0.72	ug/l	
74-87-3	Chloromethane	ND	2.0	0.81	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.58	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.67	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.3	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.86	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.74	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.77	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.81	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.61	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.63	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.74	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.70	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.66	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.74	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.83	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.73	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.44	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.34	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.23	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.23	ug/l	

Method Blank Summary

Job Number: M97264
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSE2163-MB	E51215.D	1	01/24/11	TD	n/a	n/a	MSE2163

The QC reported here applies to the following samples: Method: SW846 8260B

M97264-1, M97264-2, M97264-3, M97264-4, M97264-5, M97264-6

CAS No.	Compound	Result	RL	MDL	Units	Q
100-41-4	Ethylbenzene	ND	1.0	0.61	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.56	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.51	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.45	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.54	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.94	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.75	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.43	ug/l	
100-42-5	Styrene	ND	5.0	0.68	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.64	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.89	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.39	ug/l	
108-88-3	Toluene	ND	1.0	0.74	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.57	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.35	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.72	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.49	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.47	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.61	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.62	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.51	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.51	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.86	ug/l	
	m,p-Xylene	ND	1.0	0.62	ug/l	
95-47-6	o-Xylene	ND	1.0	0.56	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	117%	70-130%
2037-26-5	Toluene-D8	113%	70-130%
460-00-4	4-Bromofluorobenzene	106%	70-130%

Method Blank Summary

Job Number: M97264
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSE2165-MB	E51265.D	1	01/25/11	TD	n/a	n/a	MSE2165

The QC reported here applies to the following samples: Method: SW846 8260B

M97264-2

CAS No.	Compound	Result	RL	MDL	Units	Q
100-41-4	Ethylbenzene	ND	1.0	0.61	ug/l	
108-88-3	Toluene	ND	1.0	0.74	ug/l	
	m,p-Xylene	ND	1.0	0.62	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	105%	70-130%
2037-26-5	Toluene-D8	119%	70-130%
460-00-4	4-Bromofluorobenzene	110%	70-130%

Blank Spike/Blank Spike Duplicate Summary

Job Number: M97264
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSE2163-BS	E51212.D	1	01/24/11	TD	n/a	n/a	MSE2163
MSE2163-BSD	E51213.D	1	01/24/11	TD	n/a	n/a	MSE2163

The QC reported here applies to the following samples: Method: SW846 8260B

M97264-1, M97264-2, M97264-3, M97264-4, M97264-5, M97264-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	50	49.0	98	45.9	92	7	70-130/25
71-43-2	Benzene	50	56.3	113	55.3	111	2	70-130/25
108-86-1	Bromobenzene	50	51.8	104	50.4	101	3	70-130/25
74-97-5	Bromochloromethane	50	52.6	105	51.7	103	2	70-130/25
75-27-4	Bromodichloromethane	50	53.1	106	51.9	104	2	70-130/25
75-25-2	Bromoform	50	45.7	91	43.7	87	4	70-130/25
74-83-9	Bromomethane	50	54.5	109	52.6	105	4	70-130/25
78-93-3	2-Butanone (MEK)	50	47.8	96	41.3	83	15	70-130/25
104-51-8	n-Butylbenzene	50	57.8	116	55.7	111	4	70-130/25
135-98-8	sec-Butylbenzene	50	55.6	111	53.9	108	3	70-130/25
98-06-6	tert-Butylbenzene	50	56.5	113	55.5	111	2	70-130/25
75-15-0	Carbon disulfide	50	53.6	107	47.3	95	12	70-130/25
56-23-5	Carbon tetrachloride	50	55.0	110	54.1	108	2	70-130/25
108-90-7	Chlorobenzene	50	53.5	107	52.3	105	2	70-130/25
75-00-3	Chloroethane	50	55.1	110	54.8	110	1	70-130/25
67-66-3	Chloroform	50	55.2	110	53.3	107	4	70-130/25
74-87-3	Chloromethane	50	60.5	121	61.0	122	1	70-130/25
95-49-8	o-Chlorotoluene	50	55.2	110	52.6	105	5	70-130/25
106-43-4	p-Chlorotoluene	50	55.8	112	53.4	107	4	70-130/25
96-12-8	1,2-Dibromo-3-chloropropane	50	46.3	93	43.1	86	7	70-130/25
124-48-1	Dibromochloromethane	50	49.4	99	47.0	94	5	70-130/25
95-50-1	1,2-Dichlorobenzene	50	53.0	106	51.0	102	4	70-130/25
541-73-1	1,3-Dichlorobenzene	50	54.7	109	52.8	106	4	70-130/25
106-46-7	1,4-Dichlorobenzene	50	54.7	109	52.7	105	4	70-130/25
75-71-8	Dichlorodifluoromethane	50	62.7	125	61.9	124	1	70-130/25
75-34-3	1,1-Dichloroethane	50	56.0	112	54.5	109	3	70-130/25
107-06-2	1,2-Dichloroethane	50	50.1	100	49.6	99	1	70-130/25
75-35-4	1,1-Dichloroethene	50	55.1	110	55.0	110	0	70-130/25
156-59-2	cis-1,2-Dichloroethene	50	50.3	101	48.5	97	4	70-130/25
156-60-5	trans-1,2-Dichloroethene	50	54.3	109	53.1	106	2	70-130/25
78-87-5	1,2-Dichloropropane	50	52.6	105	52.5	105	0	70-130/25
142-28-9	1,3-Dichloropropane	50	49.1	98	48.1	96	2	70-130/25
594-20-7	2,2-Dichloropropane	50	62.3	125	59.6	119	4	70-130/25
563-58-6	1,1-Dichloropropene	50	55.2	110	55.1	110	0	70-130/25
10061-01-5	cis-1,3-Dichloropropene	50	54.8	110	52.7	105	4	70-130/25
10061-02-6	trans-1,3-Dichloropropene	50	57.1	114	55.0	110	4	70-130/25

Blank Spike/Blank Spike Duplicate Summary

Job Number: M97264
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSE2163-BS	E51212.D	1	01/24/11	TD	n/a	n/a	MSE2163
MSE2163-BSD	E51213.D	1	01/24/11	TD	n/a	n/a	MSE2163

The QC reported here applies to the following samples: Method: SW846 8260B

M97264-1, M97264-2, M97264-3, M97264-4, M97264-5, M97264-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
100-41-4	Ethylbenzene	50	55.0	110	53.9	108	2	70-130/25
87-68-3	Hexachlorobutadiene	50	59.5	119	59.6	119	0	70-130/25
98-82-8	Isopropylbenzene	50	62.3	125	60.8	122	2	70-130/25
99-87-6	p-Isopropyltoluene	50	57.9	116	56.0	112	3	70-130/25
1634-04-4	Methyl Tert Butyl Ether	50	45.5	91	44.0	88	3	70-130/25
74-95-3	Methylene bromide	50	52.5	105	51.3	103	2	70-130/25
75-09-2	Methylene chloride	50	53.7	107	51.9	104	3	70-130/25
103-65-1	n-Propylbenzene	50	54.0	108	52.9	106	2	70-130/25
100-42-5	Styrene	50	50.3	101	49.7	99	1	70-130/25
630-20-6	1,1,1,2-Tetrachloroethane	50	53.6	107	51.9	104	3	70-130/25
79-34-5	1,1,2,2-Tetrachloroethane	50	48.6	97	47.1	94	3	70-130/25
127-18-4	Tetrachloroethene	50	49.4	99	49.2	98	0	70-130/25
108-88-3	Toluene	50	52.0	104	51.6	103	1	70-130/25
87-61-6	1,2,3-Trichlorobenzene	50	48.3	97	48.2	96	0	70-130/25
120-82-1	1,2,4-Trichlorobenzene	50	51.9	104	50.1	100	4	70-130/25
71-55-6	1,1,1-Trichloroethane	50	55.8	112	54.1	108	3	70-130/25
79-00-5	1,1,2-Trichloroethane	50	53.0	106	52.0	104	2	70-130/25
79-01-6	Trichloroethene	50	53.0	106	56.5	113	6	70-130/25
75-69-4	Trichlorofluoromethane	50	57.0	114	55.3	111	3	70-130/25
96-18-4	1,2,3-Trichloropropane	50	46.4	93	43.4	87	7	70-130/25
95-63-6	1,2,4-Trimethylbenzene	50	54.2	108	52.1	104	4	70-130/25
108-67-8	1,3,5-Trimethylbenzene	50	54.2	108	52.4	105	3	70-130/25
108-05-4	Vinyl Acetate	50	36.8	74	35.9	72	2	70-130/25
75-01-4	Vinyl chloride	50	59.8	120	60.4	121	1	70-130/25
	m,p-Xylene	100	109	109	107	107	2	70-130/25
95-47-6	o-Xylene	50	50.8	102	49.3	99	3	70-130/25

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	110%	107%	70-130%
2037-26-5	Toluene-D8	113%	112%	70-130%
460-00-4	4-Bromofluorobenzene	109%	106%	70-130%

Blank Spike/Blank Spike Duplicate Summary

Job Number: M97264
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSE2165-BS	E51262.D	1	01/25/11	TD	n/a	n/a	MSE2165
MSE2165-BSD	E51263.D	1	01/25/11	TD	n/a	n/a	MSE2165

The QC reported here applies to the following samples: Method: SW846 8260B

M97264-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
100-41-4	Ethylbenzene	50	56.5	113	55.9	112	1	70-130/25
108-88-3	Toluene	50	51.3	103	53.0	106	3	70-130/25
	m,p-Xylene	100	112	112	110	110	2	70-130/25

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	105%	101%	70-130%
2037-26-5	Toluene-D8	114%	115%	70-130%
460-00-4	4-Bromofluorobenzene	113%	113%	70-130%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: M97264
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
M97291-1MS	E51223.D	5	01/24/11	TD	n/a	n/a	MSE2163
M97291-1MSD	E51224.D	5	01/24/11	TD	n/a	n/a	MSE2163
M97291-1	E51222.D	1	01/24/11	TD	n/a	n/a	MSE2163

The QC reported here applies to the following samples: Method: SW846 8260B

M97264-1, M97264-2, M97264-3, M97264-4, M97264-5, M97264-6

CAS No.	Compound	M97291-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	14.6		250	294	112	281	107	5	70-130/30
71-43-2	Benzene	1.5		250	291	116	290	115	0	70-130/30
108-86-1	Bromobenzene	ND		250	268	107	274	110	2	70-130/30
74-97-5	Bromochloromethane	ND		250	274	110	275	110	0	70-130/30
75-27-4	Bromodichloromethane	ND		250	253	101	249	100	2	70-130/30
75-25-2	Bromoform	ND		250	183	73	176	70	4	70-130/30
74-83-9	Bromomethane	ND		250	280	112	262	105	7	70-130/30
78-93-3	2-Butanone (MEK)	ND		250	253	101	305	122	19	70-130/30
104-51-8	n-Butylbenzene	0.67		250	295	118	296	118	0	70-130/30
135-98-8	sec-Butylbenzene	0.99		250	288	115	292	116	1	70-130/30
98-06-6	tert-Butylbenzene	ND		250	291	116	293	117	1	70-130/30
75-15-0	Carbon disulfide	ND		250	254	102	263	105	3	70-130/30
56-23-5	Carbon tetrachloride	ND		250	281	112	279	112	1	70-130/30
108-90-7	Chlorobenzene	ND		250	282	113	272	109	4	70-130/30
75-00-3	Chloroethane	0.88		250	292	116	282	112	3	70-130/30
67-66-3	Chloroform	ND		250	290	116	287	115	1	70-130/30
74-87-3	Chloromethane	ND		250	294	118	291	116	1	70-130/30
95-49-8	o-Chlorotoluene	ND		250	282	113	284	114	1	70-130/30
106-43-4	p-Chlorotoluene	ND		250	283	113	288	115	2	70-130/30
96-12-8	1,2-Dibromo-3-chloropropane	ND		250	213	85	222	89	4	70-130/30
124-48-1	Dibromochloromethane	ND		250	217	87	207	83	5	70-130/30
95-50-1	1,2-Dichlorobenzene	ND		250	265	106	265	106	0	70-130/30
541-73-1	1,3-Dichlorobenzene	ND		250	276	110	275	110	0	70-130/30
106-46-7	1,4-Dichlorobenzene	ND		250	276	110	275	110	0	70-130/30
75-71-8	Dichlorodifluoromethane	ND		250	327	131* [a]	315	126	4	70-130/30
75-34-3	1,1-Dichloroethane	1.2		250	298	119	297	118	0	70-130/30
107-06-2	1,2-Dichloroethane	ND		250	255	102	255	102	0	70-130/30
75-35-4	1,1-Dichloroethene	ND		250	290	116	293	117	1	70-130/30
156-59-2	cis-1,2-Dichloroethene	ND		250	257	103	258	103	0	70-130/30
156-60-5	trans-1,2-Dichloroethene	ND		250	279	112	280	112	0	70-130/30
78-87-5	1,2-Dichloropropane	ND		250	270	108	271	108	0	70-130/30
142-28-9	1,3-Dichloropropane	ND		250	254	102	248	99	2	70-130/30
594-20-7	2,2-Dichloropropane	ND		250	322	129	299	120	7	70-130/30
563-58-6	1,1-Dichloropropene	ND		250	289	116	290	116	0	70-130/30
10061-01-5	cis-1,3-Dichloropropene	ND		250	267	107	266	106	0	70-130/30
10061-02-6	trans-1,3-Dichloropropene	ND		250	273	109	277	111	1	70-130/30

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: M97264
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
M97291-1MS	E51223.D	5	01/24/11	TD	n/a	n/a	MSE2163
M97291-1MSD	E51224.D	5	01/24/11	TD	n/a	n/a	MSE2163
M97291-1	E51222.D	1	01/24/11	TD	n/a	n/a	MSE2163

The QC reported here applies to the following samples: Method: SW846 8260B

M97264-1, M97264-2, M97264-3, M97264-4, M97264-5, M97264-6

CAS No.	Compound	M97291-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
100-41-4	Ethylbenzene	0.76		250	284	113	281	112	1	70-130/30
87-68-3	Hexachlorobutadiene	ND		250	306	122	313	125	2	70-130/30
98-82-8	Isopropylbenzene	0.86		250	326	130	335	134* [a]	3	70-130/30
99-87-6	p-Isopropyltoluene	ND		250	296	118	298	119	1	70-130/30
1634-04-4	Methyl Tert Butyl Ether	738	E	250	893	62* [b]	868	52* [b]	3	70-130/30
74-95-3	Methylene bromide	ND		250	271	108	265	106	2	70-130/30
75-09-2	Methylene chloride	ND		250	273	109	272	109	0	70-130/30
103-65-1	n-Propylbenzene	1.4		250	282	112	286	114	1	70-130/30
100-42-5	Styrene	ND		250	247	99	241	96	2	70-130/30
630-20-6	1,1,1,2-Tetrachloroethane	ND		250	276	110	269	108	3	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	ND		250	249	100	248	99	0	70-130/30
127-18-4	Tetrachloroethene	ND		250	266	106	262	105	2	70-130/30
108-88-3	Toluene	ND		250	271	108	266	106	2	70-130/30
87-61-6	1,2,3-Trichlorobenzene	ND		250	241	96	246	98	2	70-130/30
120-82-1	1,2,4-Trichlorobenzene	ND		250	260	104	263	105	1	70-130/30
71-55-6	1,1,1-Trichloroethane	ND		250	296	118	284	114	4	70-130/30
79-00-5	1,1,2-Trichloroethane	ND		250	267	107	257	103	4	70-130/30
79-01-6	Trichloroethene	ND		250	290	116	284	114	2	70-130/30
75-69-4	Trichlorofluoromethane	ND		250	302	121	288	115	5	70-130/30
96-18-4	1,2,3-Trichloropropane	ND		250	220	88	229	92	4	70-130/30
95-63-6	1,2,4-Trimethylbenzene	1.2		250	275	110	275	110	0	70-130/30
108-67-8	1,3,5-Trimethylbenzene	0.56		250	276	110	280	112	1	70-130/30
108-05-4	Vinyl Acetate	ND		250	183	73	186	74	2	70-130/30
75-01-4	Vinyl chloride	ND		250	307	123	302	121	2	70-130/30
	m,p-Xylene	0.74		500	570	114	566	113	1	70-130/30
95-47-6	o-Xylene	1.5		250	259	103	254	101	2	70-130/30

CAS No.	Surrogate Recoveries	MS	MSD	M97291-1	Limits
1868-53-7	Dibromofluoromethane	111%	109%	112%	70-130%
2037-26-5	Toluene-D8	114%	112%	112%	70-130%
460-00-4	4-Bromofluorobenzene	110%	113%	110%	70-130%

(a) Outside control limits due to possible matrix interference. Refer to Blank Spike.
(b) Outside control limits due to high level in sample relative to spike amount.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: M97264
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
M97309-5MS	E51274.D	5	01/25/11	TD	n/a	n/a	MSE2165
M97309-5MSD	E51275.D	5	01/25/11	TD	n/a	n/a	MSE2165
M97309-5	E51273.D	5	01/25/11	TD	n/a	n/a	MSE2165

The QC reported here applies to the following samples: Method: SW846 8260B

M97264-2

CAS No.	Compound	M97309-5 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
100-41-4	Ethylbenzene	1860		250	2060	80	2080	88	1	70-130/30
108-88-3	Toluene	8480	E	250	8450	-12* [a]	8610	52* [a]	2	70-130/30
	m,p-Xylene	6130	E	500	6380	50* [a]	6440	62* [a]	1	70-130/30

CAS No.	Surrogate Recoveries	MS	MSD	M97309-5	Limits
1868-53-7	Dibromofluoromethane	106%	107%	106%	70-130%
2037-26-5	Toluene-D8	109%	109%	110%	70-130%
460-00-4	4-Bromofluorobenzene	115%	116%	112%	70-130%

(a) Outside control limits due to high level in sample relative to spike amount.

Volatile Internal Standard Area Summary

Job Number: M97264
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Check Std:	MSE2163-CC2152	Injection Date:	01/24/11
Lab File ID:	E51211.D	Injection Time:	10:12
Instrument ID:	GCMSE	Method:	SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	225782	9.10	380437	9.98	168859	13.24	166904	15.81	43603	6.61
Upper Limit [a]	451564	9.60	760874	10.48	337718	13.74	333808	16.31	87206	7.11
Lower Limit [b]	112891	8.60	190219	9.48	84430	12.74	83452	15.31	21802	6.11

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
MSE2163-BS	220745	9.10	365537	9.97	165700	13.25	162322	15.80	42763	6.61
MSE2163-BSD	230955	9.10	379300	9.98	172677	13.24	171667	15.80	45148	6.61
MSE2163-MB	208341	9.10	350079	9.97	153284	13.25	154427	15.80	44331	6.61
M97264-6	213103	9.10	351279	9.98	153440	13.24	146871	15.81	36959	6.62
M97264-1	205624	9.10	340794	9.98	146921	13.24	146367	15.81	38668	6.62
M97264-2	221921	9.10	370241	9.98	160212	13.25	159509	15.80	50542	6.61
M97264-3	225074	9.10	375243	9.98	161949	13.24	156719	15.81	51394	6.61
M97264-4	224320	9.11	370899	9.98	163914	13.25	151259	15.81	46508	6.62
M97264-5	217359	9.10	362141	9.98	159015	13.24	154049	15.81	48724	6.62
M97291-1	216404	9.11	363777	9.98	157149	13.25	155640	15.81	55077	6.62
M97291-1MS	219464	9.10	366052	9.98	162832	13.24	160777	15.81	41480	6.61
M97291-1MSD	227995	9.10	382522	9.98	171731	13.25	162189	15.80	43262	6.61
ZZZZZZ	220955	9.10	374065	9.98	159995	13.25	158899	15.80	41567	6.61
ZZZZZZ	222262	9.10	365586	9.98	160923	13.25	159593	15.80	41546	6.61
ZZZZZZ	215057	9.10	356935	9.98	153645	13.25	151425	15.80	44569	6.62
ZZZZZZ	223619	9.10	369372	9.98	160757	13.25	162484	15.80	40994	6.61
ZZZZZZ	215511	9.10	352998	9.98	154265	13.25	148078	15.81	45201	6.61
ZZZZZZ	209042	9.10	346056	9.98	151586	13.25	148535	15.80	44153	6.61
ZZZZZZ	212116	9.10	347590	9.98	149582	13.25	149413	15.81	41412	6.61
ZZZZZZ	226597	9.10	376724	9.98	162520	13.24	156555	15.81	41308	6.61
ZZZZZZ	233463	9.10	376347	9.98	167957	13.25	159866	15.80	38629	6.61

IS 1 = Pentafluorobenzene
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5
IS 4 = 1,4-Dichlorobenzene-d4
IS 5 = Tert Butyl Alcohol-D9

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Internal Standard Area Summary

Job Number: M97264
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Check Std:	MSE2165-CC2152	Injection Date:	01/25/11
Lab File ID:	E51261.D	Injection Time:	11:02
Instrument ID:	GCMSE	Method:	SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	226638	9.12	351039	10.00	163350	13.27	155593	15.82	39445	6.63
Upper Limit [a]	453276	9.62	702078	10.50	326700	13.77	311186	16.32	78890	7.13
Lower Limit [b]	113319	8.62	175520	9.50	81675	12.77	77797	15.32	19723	6.13
Lab Sample ID	**IS 1 AREA**	**RT**	**IS 2 AREA**	**RT**	**IS 3 AREA**	**RT**	**IS 4 AREA**	**RT**	**IS 5 AREA**	**RT**
MSE2165-BS	215421	9.12	350600	9.99	157418	13.27	151935	15.82	41770	6.63
MSE2165-BSD	220082	9.12	347893	9.99	159743	13.27	152158	15.82	43802	6.63
MSE2165-MB	219621	9.12	340955	10.00	155797	13.26	154593	15.82	42539	6.63
ZZZZZZ	223551	9.12	355793	10.00	155591	13.26	155282	15.82	36505	6.64
ZZZZZZ	218082	9.12	358708	9.99	157610	13.27	154013	15.82	41208	6.63
M97264-2	223042	9.13	357437	10.00	157087	13.27	155885	15.82	40840	6.63
ZZZZZZ	227340	9.12	366904	10.00	160660	13.26	159673	15.82	39209	6.64
ZZZZZZ	219586	9.12	358220	10.00	159977	13.27	160585	15.82	40530	6.64
ZZZZZZ	219445	9.12	359447	9.99	167776	13.27	160474	15.82	42427	6.64
M97309-5	231489	9.12	378732	10.00	159330	13.26	158031	15.82	49567	6.63
M97309-5MS	231560	9.12	392127	10.00	169224	13.26	160322	15.82	50477	6.63
M97309-5MSD	223154	9.12	381521	9.99	166566	13.27	152853	15.82	49793	6.63
ZZZZZZ	208343	9.12	340841	10.00	154110	13.26	152398	15.82	43045	6.63
ZZZZZZ	212646	9.12	352026	9.99	157476	13.26	155981	15.82	44106	6.64
ZZZZZZ	219069	9.12	359650	10.00	158106	13.26	157193	15.82	42622	6.63
ZZZZZZ	219499	9.12	368964	10.00	162923	13.26	164816	15.82	46493	6.63
ZZZZZZ	210187	9.12	345804	9.99	158106	13.27	155517	15.82	39050	6.63
ZZZZZZ	212774	9.12	352461	9.99	158988	13.26	157515	15.82	38790	6.63
ZZZZZZ	216262	9.12	357350	10.00	158806	13.26	157170	15.82	42176	6.63
ZZZZZZ	220194	9.12	361227	9.99	157742	13.26	161248	15.82	43994	6.63

IS 1 = Pentafluorobenzene
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5
IS 4 = 1,4-Dichlorobenzene-d4
IS 5 = Tert Butyl Alcohol-D9

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Surrogate Recovery Summary

Job Number: M97264
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Method: SW846 8260B Matrix: AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
M97264-1	E51217.D	112.0	114.0	109.0
M97264-2	E51268.D	105.0	112.0	109.0
M97264-2	E51218.D	107.0	111.0	111.0
M97264-3	E51219.D	110.0	111.0	112.0
M97264-4	E51220.D	108.0	111.0	115.0
M97264-5	E51221.D	114.0	109.0	111.0
M97264-6	E51216.D	112.0	115.0	110.0
M97291-1MS	E51223.D	111.0	114.0	110.0
M97291-1MSD	E51224.D	109.0	112.0	113.0
M97309-5MS	E51274.D	106.0	109.0	115.0
M97309-5MSD	E51275.D	107.0	109.0	116.0
MSE2163-BS	E51212.D	110.0	113.0	109.0
MSE2163-BSD	E51213.D	107.0	112.0	106.0
MSE2163-MB	E51215.D	117.0	113.0	106.0
MSE2165-BS	E51262.D	105.0	114.0	113.0
MSE2165-BSD	E51263.D	101.0	115.0	113.0
MSE2165-MB	E51265.D	105.0	119.0	110.0

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	70-130%
S2 = Toluene-D8	70-130%
S3 = 4-Bromofluorobenzene	70-130%

New England ACCUTEST LABORATORIES

GC/MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: M97264
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP23913-MB	I70132.D	1	01/29/11	PR	01/20/11	OP23913	MSI2468

The QC reported here applies to the following samples: Method: SW846 8270C

M97264-1, M97264-2, M97264-3, M97264-4, M97264-5

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	10	0.77	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	0.68	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.57	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.69	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	2.2	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	2.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	5.0	ug/l	
95-48-7	2-Methylphenol	ND	10	0.48	ug/l	
	3&4-Methylphenol	ND	10	0.63	ug/l	
88-75-5	2-Nitrophenol	ND	10	0.66	ug/l	
100-02-7	4-Nitrophenol	ND	20	5.0	ug/l	
87-86-5	Pentachlorophenol	ND	10	3.3	ug/l	
108-95-2	Phenol	ND	5.0	2.1	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.40	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.38	ug/l	
83-32-9	Acenaphthene	ND	5.0	0.34	ug/l	
208-96-8	Acenaphthylene	ND	5.0	1.3	ug/l	
62-53-3	Aniline	ND	10	0.46	ug/l	
120-12-7	Anthracene	ND	5.0	0.27	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	0.27	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	0.23	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	0.27	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	0.61	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	0.29	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	0.32	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	0.41	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.31	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.58	ug/l	
218-01-9	Chrysene	ND	5.0	0.22	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	0.35	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	0.23	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	0.21	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	0.61	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	1.3	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.34	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	2.5	ug/l	

Method Blank Summary

Job Number: M97264
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP23913-MB	I70132.D	1	01/29/11	PR	01/20/11	OP23913	MSI2468

The QC reported here applies to the following samples: Method: SW846 8270C

M97264-1, M97264-2, M97264-3, M97264-4, M97264-5

CAS No.	Compound	Result	RL	MDL	Units	Q
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	0.25	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.32	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	0.34	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	0.34	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	0.61	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	1.3	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.49	ug/l	
206-44-0	Fluoranthene	ND	5.0	0.22	ug/l	
86-73-7	Fluorene	ND	5.0	0.29	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	0.16	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	2.5	ug/l	
67-72-1	Hexachloroethane	ND	5.0	0.43	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	0.29	ug/l	
78-59-1	Isophorone	ND	5.0	0.47	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	0.31	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.33	ug/l	
99-09-2	3-Nitroaniline	ND	10	0.32	ug/l	
100-01-6	4-Nitroaniline	ND	10	0.33	ug/l	
91-20-3	Naphthalene	ND	5.0	0.33	ug/l	
98-95-3	Nitrobenzene	ND	5.0	0.31	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	0.41	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.61	ug/l	
85-01-8	Phenanthrene	ND	5.0	0.26	ug/l	
129-00-0	Pyrene	ND	5.0	0.25	ug/l	
110-86-1	Pyridine	ND	10	0.50	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	44%	15-110%
4165-62-2	Phenol-d5	28%	15-110%
118-79-6	2,4,6-Tribromophenol	60%	15-110%
4165-60-0	Nitrobenzene-d5	69%	30-130%
321-60-8	2-Fluorobiphenyl	68%	30-130%
1718-51-0	Terphenyl-d14	84%	30-130%

Blank Spike Summary

Job Number: M97264
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP23913-BS	I70133.D	1	01/29/11	PR	01/20/11	OP23913	MSI2468

The QC reported here applies to the following samples: Method: SW846 8270C

M97264-1, M97264-2, M97264-3, M97264-4, M97264-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
65-85-0	Benzoic Acid	100	39.1	39	30-130
95-57-8	2-Chlorophenol	100	78.4	78	30-130
59-50-7	4-Chloro-3-methyl phenol	100	84.2	84	30-130
120-83-2	2,4-Dichlorophenol	100	84.1	84	30-130
105-67-9	2,4-Dimethylphenol	100	69.3	69	30-130
51-28-5	2,4-Dinitrophenol	100	80.1	80	30-130
534-52-1	4,6-Dinitro-o-cresol	100	82.6	83	30-130
95-48-7	2-Methylphenol	100	74.0	74	30-130
	3&4-Methylphenol	200	139	70	30-130
88-75-5	2-Nitrophenol	100	84.6	85	30-130
100-02-7	4-Nitrophenol	100	47.9	48	30-130
87-86-5	Pentachlorophenol	100	86.7	87	30-130
108-95-2	Phenol	100	38.5	39	30-130
95-95-4	2,4,5-Trichlorophenol	100	82.9	83	30-130
88-06-2	2,4,6-Trichlorophenol	100	84.9	85	30-130
83-32-9	Acenaphthene	50	42.0	84	40-140
208-96-8	Acenaphthylene	50	34.7	69	40-140
62-53-3	Aniline	50	22.6	45	40-140
120-12-7	Anthracene	50	39.7	79	40-140
56-55-3	Benzo(a)anthracene	50	46.2	92	40-140
50-32-8	Benzo(a)pyrene	50	38.4	77	40-140
205-99-2	Benzo(b)fluoranthene	50	43.2	86	40-140
191-24-2	Benzo(g,h,i)perylene	50	40.7	81	40-140
207-08-9	Benzo(k)fluoranthene	50	48.2	96	40-140
101-55-3	4-Bromophenyl phenyl ether	50	41.7	83	40-140
85-68-7	Butyl benzyl phthalate	50	46.9	94	40-140
91-58-7	2-Chloronaphthalene	50	41.5	83	40-140
106-47-8	4-Chloroaniline	50	14.3	29* [a]	40-140
218-01-9	Chrysene	50	49.4	99	40-140
111-91-1	bis(2-Chloroethoxy)methane	50	41.6	83	40-140
111-44-4	bis(2-Chloroethyl)ether	50	43.3	87	40-140
108-60-1	bis(2-Chloroisopropyl)ether	50	45.7	91	40-140
7005-72-3	4-Chlorophenyl phenyl ether	50	42.0	84	40-140
121-14-2	2,4-Dinitrotoluene	50	41.9	84	40-140
606-20-2	2,6-Dinitrotoluene	50	41.5	83	40-140
91-94-1	3,3'-Dichlorobenzidine	50	20.9	42	40-140

Blank Spike Summary

Job Number: M97264
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP23913-BS	I70133.D	1	01/29/11	PR	01/20/11	OP23913	MSI2468

The QC reported here applies to the following samples: Method: SW846 8270C

M97264-1, M97264-2, M97264-3, M97264-4, M97264-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
53-70-3	Dibenzo(a,h)anthracene	50	40.3	81	40-140
132-64-9	Dibenzofuran	50	40.9	82	40-140
84-74-2	Di-n-butyl phthalate	50	44.7	89	40-140
117-84-0	Di-n-octyl phthalate	50	51.1	102	40-140
84-66-2	Diethyl phthalate	50	43.8	88	40-140
131-11-3	Dimethyl phthalate	50	43.1	86	40-140
117-81-7	bis(2-Ethylhexyl)phthalate	50	45.6	91	40-140
206-44-0	Fluoranthene	50	43.1	86	40-140
86-73-7	Fluorene	50	42.4	85	40-140
118-74-1	Hexachlorobenzene	50	43.3	87	40-140
77-47-4	Hexachlorocyclopentadiene	50	24.1	48	40-140
67-72-1	Hexachloroethane	50	38.0	76	40-140
193-39-5	Indeno(1,2,3-cd)pyrene	50	41.2	82	40-140
78-59-1	Isophorone	50	41.1	82	40-140
91-57-6	2-Methylnaphthalene	50	38.2	76	40-140
88-74-4	2-Nitroaniline	50	42.8	86	40-140
99-09-2	3-Nitroaniline	50	22.3	45	40-140
100-01-6	4-Nitroaniline	50	37.3	75	40-140
91-20-3	Naphthalene	50	41.6	83	40-140
98-95-3	Nitrobenzene	50	41.1	82	40-140
621-64-7	N-Nitroso-di-n-propylamine	50	45.6	91	40-140
86-30-6	N-Nitrosodiphenylamine	50	42.2	84	40-140
85-01-8	Phenanthrene	50	41.2	82	40-140
129-00-0	Pyrene	50	46.0	92	40-140
110-86-1	Pyridine	50	26.7	53	40-140

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	54%	15-110%
4165-62-2	Phenol-d5	36%	15-110%
118-79-6	2,4,6-Tribromophenol	76%	15-110%
4165-60-0	Nitrobenzene-d5	82%	30-130%
321-60-8	2-Fluorobiphenyl	82%	30-130%
1718-51-0	Terphenyl-d14	91%	30-130%

Blank Spike Summary

Job Number: M97264
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP23913-BS	I70133.D	1	01/29/11	PR	01/20/11	OP23913	MSI2468

The QC reported here applies to the following samples: Method: SW846 8270C

M97264-1, M97264-2, M97264-3, M97264-4, M97264-5

(a) Outside control limits. Blank Spike meets program technical requirements.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: M97264
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP23913-MS	I70134.D	1	01/29/11	PR	01/20/11	OP23913	MSI2468
OP23913-MSD	I70135.D	1	01/29/11	PR	01/20/11	OP23913	MSI2468
M97236-1	I70136.D	1	01/29/11	PR	01/20/11	OP23913	MSI2468

The QC reported here applies to the following samples: Method: SW846 8270C

M97264-1, M97264-2, M97264-3, M97264-4, M97264-5

CAS No.	Compound	M97236-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
65-85-0	Benzoic Acid	ND		100	42.0	42	39.0	39	7	30-130/20
95-57-8	2-Chlorophenol	ND		100	81.0	81	77.1	77	5	30-130/20
59-50-7	4-Chloro-3-methyl phenol	ND		100	86.4	86	80.9	81	7	30-130/20
120-83-2	2,4-Dichlorophenol	ND		100	86.2	86	82.7	83	4	30-130/20
105-67-9	2,4-Dimethylphenol	ND		100	67.4	67	60.3	60	11	30-130/20
51-28-5	2,4-Dinitrophenol	ND		100	83.3	83	83.1	83	0	30-130/20
534-52-1	4,6-Dinitro-o-cresol	ND		100	86.3	86	84.5	85	2	30-130/20
95-48-7	2-Methylphenol	ND		100	76.4	76	70.7	71	8	30-130/20
	3&4-Methylphenol	ND		200	144	72	131	66	9	30-130/20
88-75-5	2-Nitrophenol	ND		100	86.5	87	84.2	84	3	30-130/20
100-02-7	4-Nitrophenol	ND		100	48.9	49	48.7	49	0	30-130/20
87-86-5	Pentachlorophenol	ND		100	90.3	90	88.2	88	2	30-130/20
108-95-2	Phenol	ND		100	39.7	40	36.7	37	8	30-130/20
95-95-4	2,4,5-Trichlorophenol	ND		100	83.7	84	84.3	84	1	30-130/20
88-06-2	2,4,6-Trichlorophenol	ND		100	84.9	85	84.9	85	0	30-130/20
83-32-9	Acenaphthene	ND		50	43.0	86	42.4	85	1	40-140/20
208-96-8	Acenaphthylene	ND		50	35.2	70	34.8	70	1	40-140/20
62-53-3	Aniline	ND		50	24.3	49	23.9	48	2	40-140/20
120-12-7	Anthracene	ND		50	41.1	82	40.7	81	1	40-140/20
56-55-3	Benzo(a)anthracene	ND		50	48.3	97	46.8	94	3	40-140/20
50-32-8	Benzo(a)pyrene	ND		50	39.8	80	38.8	78	3	40-140/20
205-99-2	Benzo(b)fluoranthene	ND		50	44.7	89	43.4	87	3	40-140/20
191-24-2	Benzo(g,h,i)perylene	ND		50	43.1	86	44.8	90	4	40-140/20
207-08-9	Benzo(k)fluoranthene	ND		50	50.0	100	48.0	96	4	40-140/20
101-55-3	4-Bromophenyl phenyl ether	ND		50	43.2	86	42.2	84	2	40-140/20
85-68-7	Butyl benzyl phthalate	ND		50	49.6	99	45.5	91	9	40-140/20
91-58-7	2-Chloronaphthalene	ND		50	42.4	85	42.8	86	1	40-140/20
106-47-8	4-Chloroaniline	ND		50	15.9	32* [a]	14.9	30* [a]	6	40-140/20
218-01-9	Chrysene	ND		50	50.9	102	49.8	100	2	40-140/20
111-91-1	bis(2-Chloroethoxy)methane	ND		50	43.4	87	41.4	83	5	40-140/20
111-44-4	bis(2-Chloroethyl)ether	ND		50	45.5	91	43.0	86	6	40-140/20
108-60-1	bis(2-Chloroisopropyl)ether	ND		50	46.8	94	44.9	90	4	40-140/20
7005-72-3	4-Chlorophenyl phenyl ether	ND		50	42.9	86	42.2	84	2	40-140/20
121-14-2	2,4-Dinitrotoluene	ND		50	44.9	90	42.6	85	5	40-140/20
606-20-2	2,6-Dinitrotoluene	ND		50	43.3	87	41.7	83	4	40-140/20
91-94-1	3,3'-Dichlorobenzidine	ND		50	22.6	45	23.7	47	5	40-140/20

6.3.1

6

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: M97264
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP23913-MS	I70134.D	1	01/29/11	PR	01/20/11	OP23913	MSI2468
OP23913-MSD	I70135.D	1	01/29/11	PR	01/20/11	OP23913	MSI2468
M97236-1	I70136.D	1	01/29/11	PR	01/20/11	OP23913	MSI2468

The QC reported here applies to the following samples: Method: SW846 8270C

M97264-1, M97264-2, M97264-3, M97264-4, M97264-5

CAS No.	Compound	M97236-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
53-70-3	Dibenzo(a,h)anthracene	ND		50	42.6	85	43.5	87	2	40-140/20
132-64-9	Dibenzofuran	ND		50	41.0	82	40.9	82	0	40-140/20
84-74-2	Di-n-butyl phthalate	ND		50	46.5	93	44.7	89	4	40-140/20
117-84-0	Di-n-octyl phthalate	ND		50	52.1	104	50.8	102	3	40-140/20
84-66-2	Diethyl phthalate	ND		50	44.9	90	43.5	87	3	40-140/20
131-11-3	Dimethyl phthalate	ND		50	43.7	87	42.6	85	3	40-140/20
117-81-7	bis(2-Ethylhexyl)phthalate	ND		50	47.4	95	47.2	94	0	40-140/20
206-44-0	Fluoranthene	ND		50	44.7	89	43.3	87	3	40-140/20
86-73-7	Fluorene	ND		50	43.3	87	42.4	85	2	40-140/20
118-74-1	Hexachlorobenzene	ND		50	43.4	87	43.1	86	1	40-140/20
77-47-4	Hexachlorocyclopentadiene	ND		50	25.7	51	26.1	52	2	40-140/20
67-72-1	Hexachloroethane	ND		50	39.4	79	38.2	76	3	40-140/20
193-39-5	Indeno(1,2,3-cd)pyrene	ND		50	43.7	87	44.5	89	2	40-140/20
78-59-1	Isophorone	ND		50	42.7	85	40.4	81	6	40-140/20
91-57-6	2-Methylnaphthalene	ND		50	39.9	80	37.8	76	5	40-140/20
88-74-4	2-Nitroaniline	ND		50	44.7	89	43.4	87	3	40-140/20
99-09-2	3-Nitroaniline	ND		50	24.7	49	23.5	47	5	40-140/20
100-01-6	4-Nitroaniline	ND		50	37.7	75	36.9	74	2	40-140/20
91-20-3	Naphthalene	ND		50	43.5	87	41.5	83	5	40-140/20
98-95-3	Nitrobenzene	ND		50	42.7	85	41.5	83	3	40-140/20
621-64-7	N-Nitroso-di-n-propylamine	ND		50	47.6	95	43.9	88	8	40-140/20
86-30-6	N-Nitrosodiphenylamine	ND		50	43.9	88	43.0	86	2	40-140/20
85-01-8	Phenanthrene	ND		50	42.8	86	42.4	85	1	40-140/20
129-00-0	Pyrene	ND		50	49.1	98	45.1	90	8	40-140/20
110-86-1	Pyridine	ND		50	25.0	50	27.8	56	11	40-140/20

CAS No.	Surrogate Recoveries	MS	MSD	M97236-1	Limits
367-12-4	2-Fluorophenol	55%	52%	40%	15-110%
4165-62-2	Phenol-d5	37%	34%	25%	15-110%
118-79-6	2,4,6-Tribromophenol	79%	78%	55%	15-110%
4165-60-0	Nitrobenzene-d5	83%	81%	63%	30-130%
321-60-8	2-Fluorobiphenyl	82%	83%	62%	30-130%
1718-51-0	Terphenyl-d14	97%	88%	73%	30-130%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: M97264
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP23913-MS	I70134.D	1	01/29/11	PR	01/20/11	OP23913	MSI2468
OP23913-MSD	I70135.D	1	01/29/11	PR	01/20/11	OP23913	MSI2468
M97236-1	I70136.D	1	01/29/11	PR	01/20/11	OP23913	MSI2468

The QC reported here applies to the following samples: Method: SW846 8270C

M97264-1, M97264-2, M97264-3, M97264-4, M97264-5

(a) Outside control limits. Blank Spike meets program technical requirements.

Semivolatile Internal Standard Area Summary

Job Number: M97264
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Check Std:	MSI2468-CC2467	Injection Date:	01/29/11
Lab File ID:	I70130.D	Injection Time:	12:11
Instrument ID:	GCMSI	Method:	SW846 8270C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	250509	5.88	911140	7.22	444076	9.72	710595	12.27	580512	17.26	553009	19.79
Upper Limit [a]	501018	6.38	1822280	7.72	888152	10.22	1421190	12.77	1161024	17.76	1106018	20.29
Lower Limit [b]	125255	5.38	455570	6.72	222038	9.22	355298	11.77	290256	16.76	276505	19.29
Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP23913-MB	188393	5.87	683863	7.22	329104	9.72	544095	12.26	441153	17.24	365090	19.78
OP23913-BS	208546	5.87	797383	7.22	392407	9.72	630887	12.27	494377	17.25	396595	19.79
OP23913-MS	219132	5.87	838690	7.22	423297	9.72	670977	12.27	501242	17.25	402015	19.78
OP23913-MSD	224878	5.87	830977	7.22	390825	9.72	607712	12.27	485637	17.25	417457	19.79
M97236-1	202041	5.87	761431	7.22	367284	9.71	600448	12.26	485206	17.24	404867	19.78
M97264-1	205105	5.87	755007	7.21	369982	9.71	584380	12.26	459658	17.24	395732	19.78
M97264-2	204434	5.87	707640	7.22	329303	9.71	549845	12.26	469484	17.24	401055	19.78
M97264-3	177976	5.87	651785	7.21	325724	9.71	558148	12.26	476988	17.24	400616	19.78
M97264-4	211246	5.87	759289	7.22	375522	9.71	628548	12.26	484059	17.24	416646	19.78
M97264-5	192103	5.87	685348	7.21	329038	9.71	580591	12.26	496354	17.24	416274	19.78
ZZZZZZ	216057	5.87	789492	7.22	380880	9.71	591230	12.26	461599	17.24	403269	19.78
ZZZZZZ	208282	5.88	708869	7.25	388970	9.72	620640	12.27	513599	17.25	606351	19.79
ZZZZZZ	169566	5.87	607632	7.22	289811	9.71	505497	12.26	488636	17.24	412374	19.78
ZZZZZZ	212020	5.87	770665	7.22	377585	9.71	643223	12.26	491351	17.24	415406	19.78
ZZZZZZ	216962	5.87	814065	7.21	401890	9.71	656196	12.26	498609	17.24	432748	19.78
ZZZZZZ	253698	5.87	955726	7.22	451166	9.71	675001	12.26	460851	17.25	597288	19.80
ZZZZZZ	257153	5.87	938540	7.22	458065	9.71	701340	12.26	502315	17.24	418566	19.78
ZZZZZZ	268066	5.87	1001041	7.22	495519	9.71	771632	12.26	492206	17.24	458520	19.79
ZZZZZZ	251215	5.87	914159	7.22	436169	9.71	662471	12.26	483567	17.24	395888	19.78
ZZZZZZ	269243	5.87	977222	7.22	467118	9.71	720609	12.26	514731	17.24	411239	19.78

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

6.4.1

6

Semivolatile Internal Standard Area Summary

Job Number: M97264
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Check Std:	MSI2471-CC2467	Injection Date:	02/01/11
Lab File ID:	I70188.D	Injection Time:	17:27
Instrument ID:	GCMSI	Method:	SW846 8270C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	232445	5.84	875450	7.19	431896	9.68	705637	12.23	618619	17.21	515211	19.75
Upper Limit [a]	464890	6.34	1750900	7.69	863792	10.18	1411274	12.73	1237238	17.71	1030422	20.25
Lower Limit [b]	116223	5.34	437725	6.69	215948	9.18	352819	11.73	309310	16.71	257606	19.25
Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
M97264-2	289924	5.83	1052573	7.18	523974	9.68	828893	12.23	650821	17.20	558275	19.75
ZZZZZZ	206639	5.83	759602	7.18	373560	9.68	609909	12.22	518656	17.20	457822	19.75
ZZZZZZ	205997	5.83	767716	7.18	380967	9.68	604068	12.22	532213	17.20	455079	19.75
ZZZZZZ	224785	5.84	845025	7.18	417837	9.68	670899	12.23	566036	17.20	473874	19.75
ZZZZZZ	224558	5.84	830641	7.18	404287	9.68	651871	12.22	557207	17.20	495886	19.75
ZZZZZZ	241570	5.84	898779	7.18	436417	9.68	693689	12.22	566849	17.20	476041	19.74
ZZZZZZ	225977	5.84	835529	7.18	408458	9.68	661746	12.22	537770	17.20	450817	19.74
ZZZZZZ	262238	5.84	983256	7.18	477919	9.68	770093	12.22	647189	17.20	541188	19.75
ZZZZZZ	210212	5.83	777406	7.18	386531	9.68	622246	12.22	517756	17.20	445738	19.75
ZZZZZZ	239389	5.84	880319	7.18	434114	9.68	691265	12.22	574293	17.20	466048	19.75
ZZZZZZ	231106	5.84	867040	7.18	425450	9.68	682385	12.22	567682	17.20	472670	19.74
ZZZZZZ	230499	5.83	847116	7.18	418046	9.68	666460	12.22	550425	17.20	453942	19.74
ZZZZZZ	247518	5.84	919688	7.18	449636	9.68	704842	12.22	565366	17.20	468049	19.75
ZZZZZZ	197995	5.83	730122	7.18	358411	9.68	590038	12.22	514317	17.20	426381	19.74
OP23929-MB	325567	5.83	1200767	7.18	587470	9.68	940383	12.23	789118	17.20	699158	19.75
OP23929-BS	274906	5.83	1028031	7.19	495267	9.68	797267	12.23	683250	17.21	570037	19.75
OP23929-MS	278890	5.83	1028947	7.18	502732	9.68	843706	12.23	714682	17.21	597026	19.75
OP23929-MSD	303471	5.84	1132139	7.19	567068	9.68	932722	12.23	753365	17.22	683154	19.75
M97323-5	292398	5.83	1099863	7.18	556388	9.68	893840	12.23	807470	17.20	715810	19.75
ZZZZZZ	216067	5.83	803542	7.18	402219	9.68	654208	12.23	562806	17.20	494116	19.75
ZZZZZZ	201778	5.83	741364	7.19	365556	9.68	588482	12.23	523789	17.20	462557	19.75
ZZZZZZ	213581	5.83	785084	7.18	395972	9.68	652894	12.22	586676	17.20	508825	19.75

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Surrogate Recovery Summary

Job Number: M97264
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Method: SW846 8270C Matrix: AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
M97264-1	I70137.D	48.0	32.0	69.0	75.0	74.0	82.0
M97264-2	I70189.D	33.0	23.0	72.0	67.0	68.0	70.0
M97264-2	I70138.D	33.0	20.0	59.0	58.0	60.0	60.0
M97264-3	I70139.D	42.0	27.0	62.0	67.0	67.0	76.0
M97264-4	I70140.D	46.0	29.0	73.0	74.0	73.0	88.0
M97264-5	I70141.D	47.0	29.0	67.0	74.0	73.0	76.0
OP23913-BS	I70133.D	54.0	36.0	76.0	82.0	82.0	91.0
OP23913-MB	I70132.D	44.0	28.0	60.0	69.0	68.0	84.0
OP23913-MS	I70134.D	55.0	37.0	79.0	83.0	82.0	97.0
OP23913-MSD	I70135.D	52.0	34.0	78.0	81.0	83.0	88.0

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	15-110%
S2 = Phenol-d5	15-110%
S3 = 2,4,6-Tribromophenol	15-110%
S4 = Nitrobenzene-d5	30-130%
S5 = 2-Fluorobiphenyl	30-130%
S6 = Terphenyl-d14	30-130%

Roxana Groundwater Quarterly – 1st Quarter 2011

Laboratory SDG: M97346

Data Reviewer: Wendy Buchman

Peer Reviewer: Elizabeth Kunkel

Date Reviewed: 2/23/2011

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review 2008

Sample Identification	Sample Identification
MW6C-ROX-012111	MW6D-ROX-012111
MW9-ROX-012111	TB-ROX-012111

1.0 Data Package Completeness

Were all items delivered as specified in the QAPP and COC as appropriate?

Yes

2.0 Laboratory Case Narrative \ Cooler Receipt Form

Were problems noted in the laboratory case narrative or cooler receipt form?

Yes, the laboratory case narrative indicated SVOC LCS/LCSD recoveries were outside evaluation criteria. Additionally, diethyl phthalate was detected in the method blank. Although not indicated in the laboratory case narrative, methylene chloride was detected in the trip blank. Several samples were diluted due to high levels of target analyte. These issues are addressed further in the appropriate sections below.

The cooler receipt form indicated samples were received by the laboratory at 0.9ºC which was outside the 4ºC ± 2ºC criteria. The samples were received in good condition; therefore, no qualification of data was required. COC designated samples MW6C-ROX-012111 and MW6D-ROX-012111 were incorrectly transcribed by the laboratory as MWGC-ROX-012111 and MWGD-ROX-012111. Results were reported using the correct sample IDs. Additionally, the cooler receipt form erroneously indicated N/A for the quality control/preservation questions, trip blank present in cooler and trip blank listed on the COC. A trip blank was included in the cooler and it was listed on the COC.

3.0 Holding Times

Were samples extracted/analyzed within applicable limits?

Yes

4.0 Blank Contamination

Were any analytes detected in the Method Blanks, Field Blanks or Trip Blanks?

Yes

Blank ID	Parameter	Analyte	Concentration/Amount
TB-ROX-012111	VOCs	Methylene chloride	1.8 µg/L

Blank ID	Parameter	Analyte	Concentration/Amount
OP23942-MB	SVOCs	Diethyl phthalate	1.8 µg/L

Qualifications due to blank contamination are included in the table below. Analytical data that were reported non-detect or at concentrations greater than five times (5X) the associated blank concentration (10X for common laboratory contaminants) did not require qualification.

Sample ID	Parameter	Analyte	New Reporting Limit (RL)	Qualification
MW6C-ROX-012111	SVOCs	Diethyl phthalate	-	**U**
MW6D-ROX-012111	SVOCs	Diethyl phthalate	-	**U**
MW9-ROX-012111	SVOCs	Diethyl phthalate	-	**U**

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

No

LCS/ LCSD ID	Parameter	Analyte	LCS/LCSD Recovery	RPD	LCS/LCSD/ RPD Criteria
MSE2170-BS/BSD	VOCs	Dichlorodifluoromethane	129/**131**	2	70-130/25
MSE2170-BS/BSD	VOCs	Isopropylbenzene	126/**131**	4	70-130/25
MSE2170-BS/BSD	VOCs	Vinyl acetate	**65**/**69**	5	70-130/25
OP23942-BS	SVOCs	Benzoic Acid	**18**	NA	30-130

Analytical data that required qualification based on LCS data are included in the table below. Analytical data reported as non-detect and associated with LCS recoveries above evaluation criteria, indicating a possible high bias, did not require qualification.

Field ID	Parameter	Analyte	Qualification
MW6C-ROX-012111	VOCs	Vinyl acetate	**UJ**
MW6C-ROX-012111	SVOCs	Benzoic Acid	**UJ**
MW6D-ROX-012111	VOCs	Vinyl acetate	**UJ**
MW6D-ROX-012111	SVOCs	Benzoic Acid	**UJ**
MW9-ROX-012111	VOCs	Vinyl acetate	**UJ**
MW9-ROX-012111	SVOCs	Benzoic Acid	**UJ**

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

Yes

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

Were MS/MSD samples analyzed as part of this SDG?

No

8.0 Internal Standard (IS) Recoveries

Were internal standard area recoveries within evaluation criteria?

Yes

9.0 Laboratory Duplicate Results

Were laboratory duplicate samples collected as part of this SDG?

No

10.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

No

11.0 Sample Dilutions

For samples that were diluted and nondetect, were undiluted results also reported?

Not applicable; samples analyzed did not require a dilution.

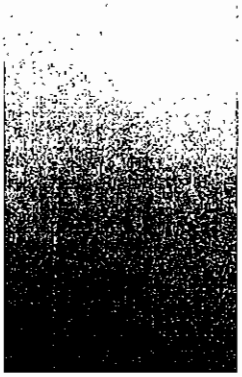
12.0 Additional Qualifications

Were additional qualifications applied?

No

New England
ACCUTEST
LABORATORIES

03/08/11



Technical Report for

Shell Oil

URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

SAP#340061

Accutest Job Number: M97346

Sampling Date: 01/21/11

Report to:

URS Corporation

Elizabeth_Kunkel@URSCorp.com

ATTN: Elizabeth Kunkel

Total number of pages in report: **45**

Reviewed
on
3/8/2011

Reza Tand
Lab Director

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Client Service contact: Kristen Blanchard 508-481-6200

Certifications: MA (M-MA136,SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) ME (MA00136) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO MN (11546AA) NC (653) IL (002337) ISO 17025:2005 (L2235)

Sections: 1 2 3 4 5 6

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Sample Summary

Shell Oil

Job No: M97346

URSMOSTL:97216640 170 East Rand Avenue Hartford, IL
Project No: SAP#340061

Sample Number	Collected Date	Time By	Received	Matrix Code	Matrix Type	Client Sample ID
M97346-1	01/21/11	10:10	01/22/11	AQ	Ground Water	MWGC-ROX-012111 "G"
M97346-2	01/21/11	11:20	01/22/11	AQ	Ground Water	MWGD-ROX-012111 "G"
M97346-3	01/21/11	13:40	01/22/11	AQ	Ground Water	MW9-ROX-012111
M97346-4	01/21/11	00:00	01/22/11	AQ	Trip Blank Water	TB-ROX-012111

ACCUTEST Laboratories

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	Shell Oil	**Job No**	M97346
Site:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL	**Report Date**	2/7/2011 9:46:09 AM

3 Sample(s), 1 Trip Blank were collected on 01/21/2011 and were received at Accutest on 01/22/2011 properly preserved, at 0.9 Deg. C and intact. These Samples received an Accutest job number of M97346. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix AQ **Batch ID:** MSE2170

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M97347-3MS, M97347-3MSD were used as the QC samples indicated.
- Blank Spike Recovery(s) for Vinyl Acetate are outside control limits. Blank Spike meets program technical requirements.
- Matrix Spike Recovery(s) for Dichlorodifluoromethane, Vinyl Acetate are outside control limits. Outside control limits due to possible matrix interference. Refer to Blank Spike.
- Matrix Spike Duplicate Recovery(s) for Dichlorodifluoromethane, Hexachlorobutadiene, Isopropylbenzene, Vinyl Acetate are outside control limits. Outside control limits due to possible matrix interference. Refer to Blank Spike.
- BSD Recovery(s) for Dichlorodifluoromethane, Isopropylbenzene, Vinyl Acetate are outside control limits. Blank Spike meets program technical requirements.

Extractables by GCMS By Method SW846 8270C

Matrix AQ **Batch ID:** OP23942

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M97378-1MS, M97378-1MSD were used as the QC samples indicated.
- Blank Spike Recovery(s) for Benzoic Acid are outside control limits. Blank Spike meets program technical requirements.
- Matrix Spike Recovery(s) for 4-Chloroaniline, Benzoic Acid are outside control limits. Outside control limits due to possible matrix interference. Refer to Blank Spike.
- Matrix Spike Duplicate Recovery(s) for Benzoic Acid are outside control limits. Outside control limits due to possible matrix interference. Refer to Blank Spike.
- Sample(s) M97346-1, M97346-2, M97346-3 have compound(s) reported with a "B" qualifier, indicating analyte is found in the associated method blank.

The Accutest Laboratories of New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety.The Accutest Laboratories of NE, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report(M97346).

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MWCC-ROX-012111		
Lab Sample ID:	M97346-1	Date Sampled:	01/21/11
Matrix:	AQ - Ground Water	Date Received:	01/22/11
Method:	SW846 8260B	Percent Solids:	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E51405.D	1	01/31/11	TD	n/a	n/a	MSE2170
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	4.6	ug/l	
71-43-2	Benzene	8.5	0.50	0.35	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.52	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.91	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.62	ug/l	
75-25-2	Bromoform	ND	1.0	0.73	ug/l	
74-83-9	Bromomethane	ND	2.0	0.95	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.1	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.49	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.37	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.53	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.35	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.42	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.61	ug/l	
75-00-3	Chloroethane	ND	2.0	0.76	ug/l	
67-66-3	Chloroform	ND	1.0	0.72	ug/l	
74-87-3	Chloromethane	ND	2.0	0.81	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.58	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.67	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.3	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.86	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.74	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.77	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.81	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.61	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.63	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.74	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.70	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.66	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.74	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.83	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.73	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW6C-ROX-012111		
Lab Sample ID:	M97346-1	Date Sampled:	01/21/11
Matrix:	AQ - Ground Water	Date Received:	01/22/11
Method:	SW846 8260B	Percent Solids:	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
594-20-7	2,2-Dichloropropane	ND	5.0	0.44	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.34	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.23	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.61	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.56	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.51	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.45	ug/l	
1634-04-4	Methyl Tert Butyl Ether	2.1	1.0	0.54	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.94	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.75	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.43	ug/l	
100-42-5	Styrene	ND	5.0	0.68	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.64	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.89	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.39	ug/l	
108-88-3	Toluene	ND	1.0	0.74	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.57	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.35	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.72	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.49	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.47	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.61	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.62	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.51	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.51	ug/l	"UJ"
75-01-4	Vinyl chloride	ND	1.0	0.86	ug/l	
	m,p-Xylene	ND	1.0	0.62	ug/l	
95-47-6	o-Xylene	ND	1.0	0.56	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		70-130%
2037-26-5	Toluene-D8	111%		70-130%
460-00-4	4-Bromofluorobenzene	108%		70-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-GC-ROX-012111		
Lab Sample ID:	M97346-1	Date Sampled:	01/21/11
Matrix:	AQ - Ground Water	Date Received:	01/22/11
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S21218.D	1	02/02/11	PR	01/25/11	OP23942	MSS888
Run #2							

	Initial Volume	Final Volume
Run #1	950 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	11	0.81	ug/l	
95-57-8	2-Chlorophenol	ND	5.3	0.72	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.60	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.73	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	2.3	ug/l	
51-28-5	2,4-Dinitrophenol	ND	21	2.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	5.3	ug/l	
95-48-7	2-Methylphenol	ND	11	0.50	ug/l	
	3&4-Methylphenol	ND	11	0.66	ug/l	
88-75-5	2-Nitrophenol	ND	11	0.69	ug/l	
100-02-7	4-Nitrophenol	ND	21	5.3	ug/l	
87-86-5	Pentachlorophenol	ND	11	3.5	ug/l	
108-95-2	Phenol	ND	5.3	2.2	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.42	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.40	ug/l	
83-32-9	Acenaphthene	ND	5.3	0.36	ug/l	
208-96-8	Acenaphthylene	ND	5.3	1.3	ug/l	
62-53-3	Aniline	ND	11	0.48	ug/l	
120-12-7	Anthracene	ND	5.3	0.29	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.3	0.29	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.3	0.24	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.3	0.29	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.3	0.64	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.3	0.31	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.3	0.34	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.3	0.43	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.3	0.32	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.61	ug/l	
218-01-9	Chrysene	ND	5.3	0.24	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.3	0.37	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.3	0.25	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.3	0.22	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-C-ROX-012111		
Lab Sample ID:	M97346-1	Date Sampled:	01/21/11
Matrix:	AQ - Ground Water	Date Received:	01/22/11
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.3	0.64	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	1.3	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.35	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.3	2.6	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.3	0.26	ug/l	
132-64-9	Dibenzofuran	ND	5.3	0.33	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.3	0.35	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.3	0.36	ug/l	
84-66-2	Diethyl phthalate	~~0.84~~ 0.0 ND	5.3	0.64	ug/l	~~JB~~ "U"
131-11-3	Dimethyl phthalate	ND	5.3	1.3	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.1	0.51	ug/l	
206-44-0	Fluoranthene	ND	5.3	0.23	ug/l	
86-73-7	Fluorene	ND	5.3	0.31	ug/l	
118-74-1	Hexachlorobenzene	ND	5.3	0.17	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	2.6	ug/l	
67-72-1	Hexachloroethane	ND	5.3	0.45	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.3	0.30	ug/l	
78-59-1	Isophorone	ND	5.3	0.50	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.3	0.32	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.35	ug/l	
99-09-2	3-Nitroaniline	ND	11	0.34	ug/l	
100-01-6	4-Nitroaniline	ND	11	0.35	ug/l	
91-20-3	Naphthalene	ND	5.3	0.34	ug/l	
98-95-3	Nitrobenzene	ND	5.3	0.32	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.3	0.43	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.3	0.64	ug/l	
85-01-8	Phenanthrene	ND	5.3	0.27	ug/l	
129-00-0	Pyrene	ND	5.3	0.26	ug/l	
110-86-1	Pyridine	ND	11	0.53	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	39%		15-110%
4165-62-2	Phenol-d5	24%		15-110%
118-79-6	2,4,6-Tribromophenol	88%		15-110%
4165-60-0	Nitrobenzene-d5	71%		30-130%
321-60-8	2-Fluorobiphenyl	73%		30-130%
1718-51-0	Terphenyl-d14	76%		30-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW6D-ROX-012111		
Lab Sample ID:	M97346-2	Date Sampled:	01/21/11
Matrix:	AQ - Ground Water	Date Received:	01/22/11
Method:	SW846 8260B	Percent Solids:	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E51406.D	1	01/31/11	TD	n/a	n/a	MSE2170
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	4.6	ug/l	
71-43-2	Benzene	10.4	0.50	0.35	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.52	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.91	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.62	ug/l	
75-25-2	Bromoform	ND	1.0	0.73	ug/l	
74-83-9	Bromomethane	ND	2.0	0.95	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.1	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.49	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.37	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.53	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.35	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.42	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.61	ug/l	
75-00-3	Chloroethane	ND	2.0	0.76	ug/l	
67-66-3	Chloroform	ND	1.0	0.72	ug/l	
74-87-3	Chloromethane	ND	2.0	0.81	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.58	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.67	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.3	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.86	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.74	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.77	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.81	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.61	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.63	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.74	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.70	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.66	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.74	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.83	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.73	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-GD-ROX-012111		
Lab Sample ID:	M97346-2	Date Sampled:	01/21/11
Matrix:	AQ - Ground Water	Date Received:	01/22/11
Method:	SW846 8260B	Percent Solids:	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
594-20-7	2,2-Dichloropropane	ND	5.0	0.44	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.34	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.23	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.61	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.56	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.51	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.45	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.54	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.94	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.75	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.43	ug/l	
100-42-5	Styrene	ND	5.0	0.68	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.64	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.89	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.39	ug/l	
108-88-3	Toluene	ND	1.0	0.74	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.57	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.35	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.72	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.49	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.47	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.61	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.62	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.51	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.51	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.86	ug/l	
	m,p-Xylene	ND	1.0	0.62	ug/l	
95-47-6	o-Xylene	ND	1.0	0.56	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	112%		70-130%
2037-26-5	Toluene-D8	113%		70-130%
460-00-4	4-Bromofluorobenzene	110%		70-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

"6"

Client Sample ID:	MW6D-ROX-012111		
Lab Sample ID:	M97346-2	Date Sampled:	01/21/11
Matrix:	AQ - Ground Water	Date Received:	01/22/11
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S21219.D	1	02/02/11	PR	01/25/11	OP23942	MSS888
Run #2							

	Initial Volume	Final Volume
Run #1	950 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	11	0.81	ug/l	"UJ"
95-57-8	2-Chlorophenol	ND	5.3	0.72	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.60	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.73	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	2.3	ug/l	
51-28-5	2,4-Dinitrophenol	ND	21	2.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	5.3	ug/l	
95-48-7	2-Methylphenol	ND	11	0.50	ug/l	
	3&4-Methylphenol	ND	11	0.66	ug/l	
88-75-5	2-Nitrophenol	ND	11	0.69	ug/l	
100-02-7	4-Nitrophenol	ND	21	5.3	ug/l	
87-86-5	Pentachlorophenol	ND	11	3.5	ug/l	
108-95-2	Phenol	ND	5.3	2.2	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.42	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.40	ug/l	
83-32-9	Acenaphthene	ND	5.3	0.36	ug/l	
208-96-8	Acenaphthylene	ND	5.3	1.3	ug/l	
62-53-3	Aniline	ND	11	0.48	ug/l	
120-12-7	Anthracene	ND	5.3	0.29	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.3	0.29	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.3	0.24	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.3	0.29	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.3	0.64	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.3	0.31	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.3	0.34	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.3	0.43	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.3	0.32	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.61	ug/l	
218-01-9	Chrysene	ND	5.3	0.24	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.3	0.37	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.3	0.25	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.3	0.22	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW6D-ROX-012111		
Lab Sample ID:	M97346-2	Date Sampled:	01/21/11
Matrix:	AQ - Ground Water	Date Received:	01/22/11
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.3	0.64	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	1.3	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.35	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.3	2.6	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.3	0.26	ug/l	
132-64-9	Dibenzofuran	ND	5.3	0.33	ug/l	
84-74-2	Di-n-butyl phthalate	0.71	5.3	0.35	ug/l	J
117-84-0	Di-n-octyl phthalate	ND	5.3	0.36	ug/l	
84-66-2	Diethyl phthalate	~~1.0~~ 0.OND	5.3	0.64	ug/l	~~JB~~ "U"
131-11-3	Dimethyl phthalate	ND	5.3	1.3	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.1	0.51	ug/l	
206-44-0	Fluoranthene	ND	5.3	0.23	ug/l	
86-73-7	Fluorene	ND	5.3	0.31	ug/l	
118-74-1	Hexachlorobenzene	ND	5.3	0.17	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	2.6	ug/l	
67-72-1	Hexachloroethane	ND	5.3	0.45	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.3	0.30	ug/l	
78-59-1	Isophorone	ND	5.3	0.50	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.3	0.32	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.35	ug/l	
99-09-2	3-Nitroaniline	ND	11	0.34	ug/l	
100-01-6	4-Nitroaniline	ND	11	0.35	ug/l	
91-20-3	Naphthalene	ND	5.3	0.34	ug/l	
98-95-3	Nitrobenzene	ND	5.3	0.32	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.3	0.43	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.3	0.64	ug/l	
85-01-8	Phenanthrene	ND	5.3	0.27	ug/l	
129-00-0	Pyrene	ND	5.3	0.26	ug/l	
110-86-1	Pyridine	ND	11	0.53	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	38%		15-110%
4165-62-2	Phenol-d5	24%		15-110%
118-79-6	2,4,6-Tribromophenol	90%		15-110%
4165-60-0	Nitrobenzene-d5	73%		30-130%
321-60-8	2-Fluorobiphenyl	74%		30-130%
1718-51-0	Terphenyl-d14	78%		30-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW9-ROX-012111		
Lab Sample ID:	M97346-3	Date Sampled:	01/21/11
Matrix:	AQ - Ground Water	Date Received:	01/22/11
Method:	SW846 8260B	Percent Solids:	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E51407.D	1	01/31/11	TD	n/a	n/a	MSE2170
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	4.6	ug/l	
71-43-2	Benzene	3.7	0.50	0.35	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.52	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.91	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.62	ug/l	
75-25-2	Bromoform	ND	1.0	0.73	ug/l	
74-83-9	Bromomethane	ND	2.0	0.95	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.1	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.49	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.37	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.53	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.35	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.42	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.61	ug/l	
75-00-3	Chloroethane	ND	2.0	0.76	ug/l	
67-66-3	Chloroform	ND	1.0	0.72	ug/l	
74-87-3	Chloromethane	ND	2.0	0.81	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.58	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.67	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.3	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.86	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.74	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.77	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.81	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.61	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.63	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.74	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.70	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.66	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.74	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.83	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.73	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW9-ROX-012111		
Lab Sample ID:	M97346-3	Date Sampled:	01/21/11
Matrix:	AQ - Ground Water	Date Received:	01/22/11
Method:	SW846 8260B	Percent Solids:	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
594-20-7	2,2-Dichloropropane	ND	5.0	0.44	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.34	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.23	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.61	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.56	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.51	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.45	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.54	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.94	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.75	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.43	ug/l	
100-42-5	Styrene	ND	5.0	0.68	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.64	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.89	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.39	ug/l	
108-88-3	Toluene	ND	1.0	0.74	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.57	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.35	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.72	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.49	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.47	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.61	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.62	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.51	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.51	ug/l	"UJ"
75-01-4	Vinyl chloride	ND	1.0	0.86	ug/l	
	m,p-Xylene	ND	1.0	0.62	ug/l	
95-47-6	o-Xylene	ND	1.0	0.56	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%		70-130%
2037-26-5	Toluene-D8	107%		70-130%
460-00-4	4-Bromofluorobenzene	106%		70-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW9-ROX-012111		
Lab Sample ID:	M97346-3	Date Sampled:	01/21/11
Matrix:	AQ - Ground Water	Date Received:	01/22/11
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S21220.D	1	02/02/11	PR	01/25/11	OP23942	MSS888
Run #2							

	Initial Volume	Final Volume
Run #1	950 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	11	0.81	ug/l	UJ
95-57-8	2-Chlorophenol	ND	5.3	0.72	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.60	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.73	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	2.3	ug/l	
51-28-5	2,4-Dinitrophenol	ND	21	2.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	5.3	ug/l	
95-48-7	2-Methylphenol	ND	11	0.50	ug/l	
	3&4-Methylphenol	ND	11	0.66	ug/l	
88-75-5	2-Nitrophenol	ND	11	0.69	ug/l	
100-02-7	4-Nitrophenol	ND	21	5.3	ug/l	
87-86-5	Pentachlorophenol	ND	11	3.5	ug/l	
108-95-2	Phenol	ND	5.3	2.2	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.42	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.40	ug/l	
83-32-9	Acenaphthene	ND	5.3	0.36	ug/l	
208-96-8	Acenaphthylene	ND	5.3	1.3	ug/l	
62-53-3	Aniline	ND	11	0.48	ug/l	
120-12-7	Anthracene	ND	5.3	0.29	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.3	0.29	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.3	0.24	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.3	0.29	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.3	0.64	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.3	0.31	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.3	0.34	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.3	0.43	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.3	0.32	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.61	ug/l	
218-01-9	Chrysene	ND	5.3	0.24	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.3	0.37	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.3	0.25	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.3	0.22	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW9-ROX-012111		
Lab Sample ID:	M97346-3	Date Sampled:	01/21/11
Matrix:	AQ - Ground Water	Date Received:	01/22/11
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.3	0.64	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	1.3	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.35	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.3	2.6	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.3	0.26	ug/l	
132-64-9	Dibenzofuran	ND	5.3	0.33	ug/l	
84-74-2	Di-n-butyl phthalate	0.64	5.3	0.35	ug/l	J
117-84-0	Di-n-octyl phthalate	ND	5.3	0.36	ug/l	
84-66-2	Diethyl phthalate	~~1.0~~ 0.0ND	5.3	0.64	ug/l	~~JB~~ "U"
131-11-3	Dimethyl phthalate	ND	5.3	1.3	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.1	0.51	ug/l	
206-44-0	Fluoranthene	ND	5.3	0.23	ug/l	
86-73-7	Fluorene	ND	5.3	0.31	ug/l	
118-74-1	Hexachlorobenzene	ND	5.3	0.17	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	2.6	ug/l	
67-72-1	Hexachloroethane	ND	5.3	0.45	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.3	0.30	ug/l	
78-59-1	Isophorone	ND	5.3	0.50	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.3	0.32	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.35	ug/l	
99-09-2	3-Nitroaniline	ND	11	0.34	ug/l	
100-01-6	4-Nitroaniline	ND	11	0.35	ug/l	
91-20-3	Naphthalene	ND	5.3	0.34	ug/l	
98-95-3	Nitrobenzene	ND	5.3	0.32	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.3	0.43	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.3	0.64	ug/l	
85-01-8	Phenanthrene	ND	5.3	0.27	ug/l	
129-00-0	Pyrene	ND	5.3	0.26	ug/l	
110-86-1	Pyridine	ND	11	0.53	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	39%		15-110%
4165-62-2	Phenol-d5	24%		15-110%
118-79-6	2,4,6-Tribromophenol	82%		15-110%
4165-60-0	Nitrobenzene-d5	75%		30-130%
321-60-8	2-Fluorobiphenyl	75%		30-130%
1718-51-0	Terphenyl-d14	73%		30-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-ROX-012111		
Lab Sample ID:	M97346-4	Date Sampled:	01/21/11
Matrix:	AQ - Trip Blank Water	Date Received:	01/22/11
Method:	SW846 8260B	Percent Solids:	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E51400.D	1	01/31/11	TD	n/a	n/a	MSE2170
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	4.6	ug/l	
71-43-2	Benzene	ND	0.50	0.35	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.52	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.91	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.62	ug/l	
75-25-2	Bromoform	ND	1.0	0.73	ug/l	
74-83-9	Bromomethane	ND	2.0	0.95	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.1	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.49	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.37	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.53	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.35	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.42	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.61	ug/l	
75-00-3	Chloroethane	ND	2.0	0.76	ug/l	
67-66-3	Chloroform	ND	1.0	0.72	ug/l	
74-87-3	Chloromethane	ND	2.0	0.81	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.58	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.67	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.3	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.86	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.74	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.77	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.81	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.61	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.63	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.74	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.70	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.66	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.74	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.83	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.73	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-ROX-012111		
Lab Sample ID:	M97346-4	Date Sampled:	01/21/11
Matrix:	AQ - Trip Blank Water	Date Received:	01/22/11
Method:	SW846 8260B	Percent Solids:	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
594-20-7	2,2-Dichloropropane	ND	5.0	0.44	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.34	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.23	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.61	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.56	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.51	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.45	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.54	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.94	ug/l	
75-09-2	Methylene chloride	1.8	2.0	0.75	ug/l	J
103-65-1	n-Propylbenzene	ND	5.0	0.43	ug/l	
100-42-5	Styrene	ND	5.0	0.68	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.64	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.89	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.39	ug/l	
108-88-3	Toluene	ND	1.0	0.74	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.57	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.35	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.72	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.49	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.47	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.61	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.62	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.51	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.51	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.86	ug/l	
	m,p-Xylene	ND	1.0	0.62	ug/l	
95-47-6	o-Xylene	ND	1.0	0.56	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%		70-130%
2037-26-5	Toluene-D8	114%		70-130%
460-00-4	4-Bromofluorobenzene	110%		70-130%

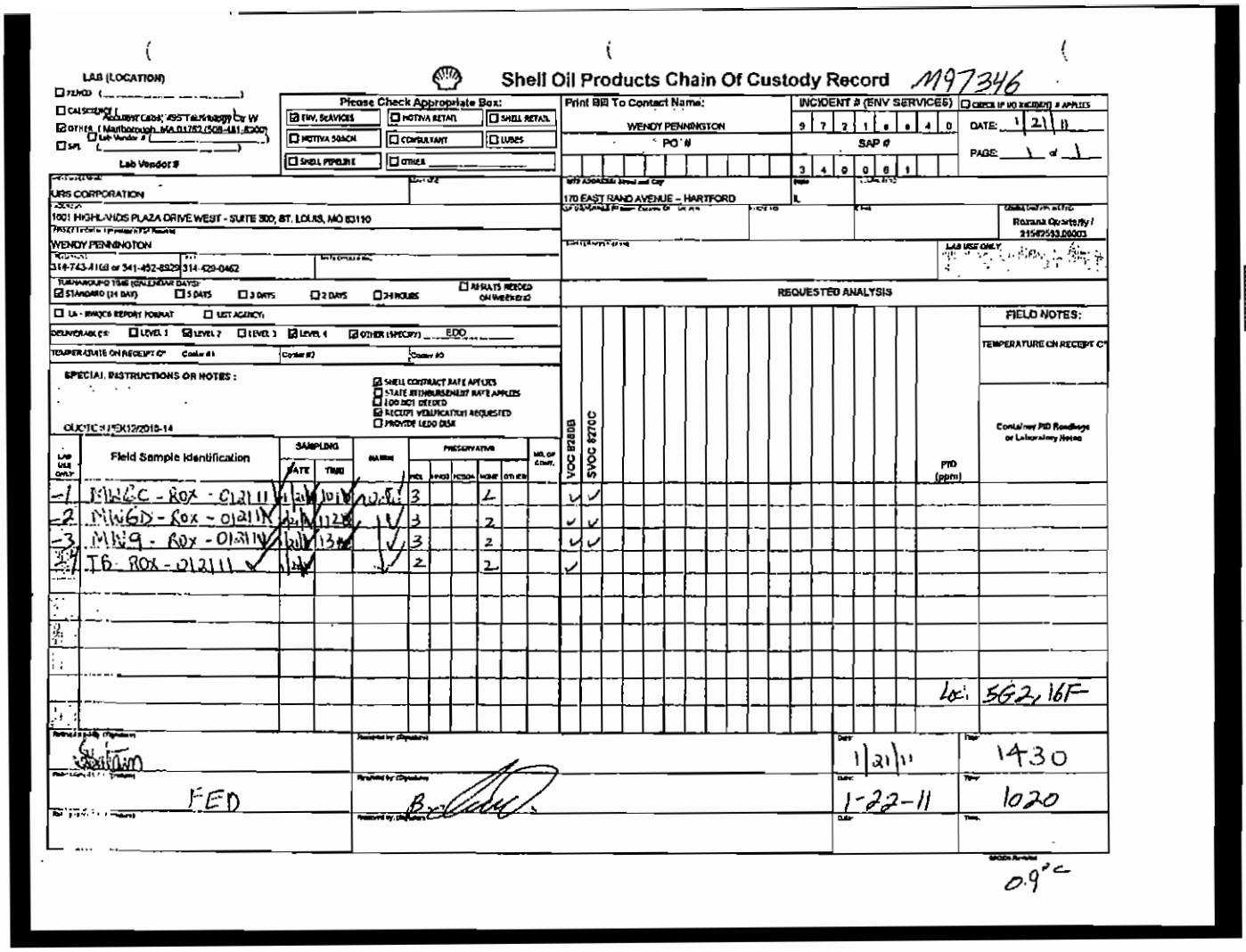
ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Certification Exceptions (IL)
- Chain of Custody
- Sample Tracking Chronicle
- Internal Chain of Custody



LAB (LOCATION)
☐ FLHOU (_____)
☐ CALSCIENCE (_____)
☑ OTHER (Accutest Labs; 495 Technology Dr W Marlborough, MA 01752 (508-481-6200))
☐ SPL (_____)
Lab Vendor #

Shell Oil Products Chain Of Custody Record M97346

Please Check Appropriate Box:
☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SOACH ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name: WENDY PENNINGTON
INCIDENT # (ENV SERVICES): 9 7 2 1 0 0 4 0 ☐ CHECK IF NO INCIDENT # APPLIES
DATE: 1 21 11
PO #
SAP #: 3 4 0 0 0 3
PAGE: 1 of 1

URS CORPORATION
1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300, ST. LOUIS, MO 63110
WENDY PENNINGTON
314-743-4168 or 341-452-8929 314-429-0462
170 EAST RAND AVENUE – HARTFORD IL
Rozana Qureshy / 215472593.00003

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (21 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND?
☐ LA - RWQCB REPORT FORMAT ☐ LIST AGENCY:
DELIVERABLE TO: ☐ LEVEL 1 ☑ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☑ OTHER (SPECIFY) EDD
TEMPERATURE ON RECEIPT C° Cooler #1 Cooler #2 Cooler #3

SPECIAL INSTRUCTIONS OR NOTES:
☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ DO NOT BACKDATE
☑ RECEIPT VERIFICATION REQUESTED
☐ PROVIDE EDD DISK
GLOBAL ID: T0600100150

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	VOC 8260B	SVOC 8270C	PID (ppm)	FIELD NOTES: Container PID Readings or Laboratory Notes
-1	MW6C - ROX - 012111	1/21/11	1010	W	3			2			✓	✓		
-2	MW6D - ROX - 012111	1/21/11	1120	W	3			2			✓	✓		
-3	MW9 - ROX - 012111	1/21/11	1310	W	3			2			✓	✓		
-4	TB - ROX - 012111	1/21/11		W	2			2			✓			

TEMPERATURE ON RECEIPT C°

Lot: 562, 16F

Relinquished by (Signature)	Received by (Signature)	1/21/11	1430
FED			
Relinquished by (Signature)	Received by (Signature)	1-22-11	1020

0.9°C

4.1 A

M97346: Chain of Custody
Page 1 of 2

ACCUTEST LABORATORIES

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: M97346 Client: URS Immediate Client Services Action Required: No

Date / Time Received: 1/22/2011 Delivery Method: Client Service Action Required at Login: No

Project: No. Coolers: 1 Airbill #'s:

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	Infared gun		
3. Cooler media:	Ice (bag)		

Quality Control Preservatio	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☐	☑
2. Trip Blank listed on COC:	☐		☐	☑
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

Accutest Laboratories
V:508.481.6200

495 Technology Center West, Bldg One
F: 508.481.7753

Marlborough, MA
www.accutest.com

4.1.4

M97346: Chain of Custody
Page 2 of 2

Internal Sample Tracking Chronicle

Shell Oil

Job No: M97346

URSMOSTL:97216640 170 East Rand Avenue Hartford, IL
Project No: SAP#340061

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
M97346-1 Collected: 21-JAN-11 10:10 By: MWGC-ROX-012111		Received: 22-JAN-11 By: BC				
M97346-1	SW846 8260B	31-JAN-11 17:09	TD			V8260STD
M97346-1	SW846 8270C	02-FEB-11 15:09	PR	25-JAN-11	BJ	AB8270PPL
M97346-2 Collected: 21-JAN-11 11:20 By: MWGD-ROX-012111		Received: 22-JAN-11 By: BC				
M97346-2	SW846 8260B	31-JAN-11 17:38	TD			V8260STD
M97346-2	SW846 8270C	02-FEB-11 15:37	PR	25-JAN-11	BJ	AB8270PPL
M97346-3 Collected: 21-JAN-11 13:40 By: MW9-ROX-012111		Received: 22-JAN-11 By: BC				
M97346-3	SW846 8260B	31-JAN-11 18:07	TD			V8260STD
M97346-3	SW846 8270C	02-FEB-11 16:04	PR	25-JAN-11	BJ	AB8270PPL
M97346-4 Collected: 21-JAN-11 00:00 By: TB-ROX-012111		Received: 22-JAN-11 By: BC				
M97346-4	SW846 8260B	31-JAN-11 14:50	TD			V8260STD

Accutest Internal Chain of Custody

Job Number: M97346
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL
Received: 01/22/11

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
M97346-1.3	VOC Ref #5	Tamis Dudo	01/31/11 12:45	Retrieve from Storage
M97346-1.3	Tamis Dudo	GCMSE	01/31/11 12:45	Load on Instrument
M97346-1.3	GCMSE	Tamis Dudo	02/01/11 09:30	Unload from Instrument
M97346-1.3	Tamis Dudo	VOC Ref #5	02/02/11 15:51	Return to Storage
M97346-1.5	Walk In Ref #22	Michael Widuta	01/25/11 07:34	Retrieve from Storage
M97346-1.5	Michael Widuta		01/25/11 14:02	Depleted
M97346-2.2	VOC Ref #5	Tamis Dudo	01/31/11 12:45	Retrieve from Storage
M97346-2.2	Tamis Dudo	GCMSE	01/31/11 12:45	Load on Instrument
M97346-2.2	GCMSE	Tamis Dudo	02/01/11 09:30	Unload from Instrument
M97346-2.2	Tamis Dudo	VOC Ref #5	02/02/11 15:51	Return to Storage
M97346-2.5	Walk In Ref #22	Michael Widuta	01/25/11 07:34	Retrieve from Storage
M97346-2.5	Michael Widuta		01/25/11 14:02	Depleted
M97346-3.3	VOC Ref #5	Tamis Dudo	01/31/11 12:45	Retrieve from Storage
M97346-3.3	Tamis Dudo	GCMSE	01/31/11 12:45	Load on Instrument
M97346-3.3	GCMSE	Tamis Dudo	02/01/11 09:30	Unload from Instrument
M97346-3.3	Tamis Dudo	VOC Ref #5	02/02/11 15:51	Return to Storage
M97346-3.4	Walk In Ref #22	Michael Widuta	01/25/11 07:34	Retrieve from Storage
M97346-3.4	Michael Widuta		01/25/11 14:02	Depleted
M97346-4.2	VOC Ref #5	Tamis Dudo	01/31/11 12:45	Retrieve from Storage
M97346-4.2	Tamis Dudo	GCMSE	01/31/11 12:45	Load on Instrument
M97346-4.2	GCMSE	Tamis Dudo	02/01/11 09:30	Unload from Instrument
M97346-4.2	Tamis Dudo	VOC Ref #5	02/02/11 15:51	Return to Storage

New England ACCUTEST LABORATORIES

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: M97346
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSE2170-MB	E51394.D	1	01/31/11	TD	n/a	n/a	MSE2170

The QC reported here applies to the following samples: Method: SW846 8260B

M97346-1, M97346-2, M97346-3, M97346-4

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	4.6	ug/l	
71-43-2	Benzene	ND	0.50	0.35	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.52	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.91	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.62	ug/l	
75-25-2	Bromoform	ND	1.0	0.73	ug/l	
74-83-9	Bromomethane	ND	2.0	0.95	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.1	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.49	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.37	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.53	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.35	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.42	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.61	ug/l	
75-00-3	Chloroethane	ND	2.0	0.76	ug/l	
67-66-3	Chloroform	ND	1.0	0.72	ug/l	
74-87-3	Chloromethane	ND	2.0	0.81	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.58	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.67	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.3	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.86	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.74	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.77	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.81	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.61	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.63	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.74	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.70	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.66	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.74	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.83	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.73	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.44	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.34	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.23	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.23	ug/l	

Method Blank Summary

Job Number: M97346
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSE2170-MB	E51394.D	1	01/31/11	TD	n/a	n/a	MSE2170

The QC reported here applies to the following samples: Method: SW846 8260B

M97346-1, M97346-2, M97346-3, M97346-4

CAS No.	Compound	Result	RL	MDL	Units	Q
100-41-4	Ethylbenzene	ND	1.0	0.61	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.56	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.51	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.45	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.54	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.94	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.75	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.43	ug/l	
100-42-5	Styrene	ND	5.0	0.68	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.64	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.89	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.39	ug/l	
108-88-3	Toluene	ND	1.0	0.74	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.57	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.35	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.72	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.49	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.47	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.61	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.62	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.51	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.51	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.86	ug/l	
	m,p-Xylene	ND	1.0	0.62	ug/l	
95-47-6	o-Xylene	ND	1.0	0.56	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	112%	70-130%
2037-26-5	Toluene-D8	116%	70-130%
460-00-4	4-Bromofluorobenzene	110%	70-130%

Blank Spike/Blank Spike Duplicate Summary

Job Number: M97346
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSE2170-BS	E51391.D	1	01/31/11	TD	n/a	n/a	MSE2170
MSE2170-BSD	E51392.D	1	01/31/11	TD	n/a	n/a	MSE2170

The QC reported here applies to the following samples: Method: SW846 8260B

M97346-1, M97346-2, M97346-3, M97346-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	50	62.5	125	57.6	115	8	70-130/25
71-43-2	Benzene	50	54.7	109	55.9	112	2	70-130/25
108-86-1	Bromobenzene	50	52.4	105	54.8	110	4	70-130/25
74-97-5	Bromochloromethane	50	50.5	101	51.3	103	2	70-130/25
75-27-4	Bromodichloromethane	50	53.3	107	53.7	107	1	70-130/25
75-25-2	Bromoform	50	46.8	94	46.5	93	1	70-130/25
74-83-9	Bromomethane	50	49.1	98	48.8	98	1	70-130/25
78-93-3	2-Butanone (MEK)	50	51.3	103	49.4	99	4	70-130/25
104-51-8	n-Butylbenzene	50	58.3	117	60.0	120	3	70-130/25
135-98-8	sec-Butylbenzene	50	56.6	113	57.9	116	2	70-130/25
98-06-6	tert-Butylbenzene	50	57.9	116	59.8	120	3	70-130/25
75-15-0	Carbon disulfide	50	57.1	114	58.5	117	2	70-130/25
56-23-5	Carbon tetrachloride	50	55.6	111	56.5	113	2	70-130/25
108-90-7	Chlorobenzene	50	52.2	104	54.5	109	4	70-130/25
75-00-3	Chloroethane	50	51.0	102	52.5	105	3	70-130/25
67-66-3	Chloroform	50	52.9	106	54.3	109	3	70-130/25
74-87-3	Chloromethane	50	49.8	100	51.4	103	3	70-130/25
95-49-8	o-Chlorotoluene	50	55.5	111	57.8	116	4	70-130/25
106-43-4	p-Chlorotoluene	50	56.2	112	57.6	115	2	70-130/25
96-12-8	1,2-Dibromo-3-chloropropane	50	42.8	86	42.5	85	1	70-130/25
124-48-1	Dibromochloromethane	50	49.2	98	50.9	102	3	70-130/25
95-50-1	1,2-Dichlorobenzene	50	51.7	103	53.6	107	4	70-130/25
541-73-1	1,3-Dichlorobenzene	50	50.5	101	52.2	104	3	70-130/25
106-46-7	1,4-Dichlorobenzene	50	55.3	111	56.6	113	2	70-130/25
75-71-8	Dichlorodifluoromethane	50	64.5	129	65.5	131* [a]	2	70-130/25
75-34-3	1,1-Dichloroethane	50	53.2	106	55.3	111	4	70-130/25
107-06-2	1,2-Dichloroethane	50	49.5	99	50.4	101	2	70-130/25
75-35-4	1,1-Dichloroethene	50	52.7	105	54.0	108	2	70-130/25
156-59-2	cis-1,2-Dichloroethene	50	47.5	95	47.9	96	1	70-130/25
156-60-5	trans-1,2-Dichloroethene	50	50.5	101	52.3	105	4	70-130/25
78-87-5	1,2-Dichloropropane	50	51.2	102	51.6	103	1	70-130/25
142-28-9	1,3-Dichloropropane	50	47.3	95	47.6	95	1	70-130/25
594-20-7	2,2-Dichloropropane	50	58.3	117	59.6	119	2	70-130/25
563-58-6	1,1-Dichloropropene	50	53.8	108	55.3	111	3	70-130/25
10061-01-5	cis-1,3-Dichloropropene	50	53.8	108	55.2	110	3	70-130/25
10061-02-6	trans-1,3-Dichloropropene	50	55.5	111	58.2	116	5	70-130/25

Blank Spike/Blank Spike Duplicate Summary

Job Number: M97346
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSE2170-BS	E51391.D	1	01/31/11	TD	n/a	n/a	MSE2170
MSE2170-BSD	E51392.D	1	01/31/11	TD	n/a	n/a	MSE2170

The QC reported here applies to the following samples: Method: SW846 8260B

M97346-1, M97346-2, M97346-3, M97346-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
100-41-4	Ethylbenzene	50	53.5	107	55.3	111	3	70-130/25
87-68-3	Hexachlorobutadiene	50	60.8	122	63.7	127	5	70-130/25
98-82-8	Isopropylbenzene	50	62.9	126	65.7	131* [a]	4	70-130/25
99-87-6	p-Isopropyltoluene	50	58.3	117	59.7	119	2	70-130/25
1634-04-4	Methyl Tert Butyl Ether	50	41.1	82	42.0	84	2	70-130/25
74-95-3	Methylene bromide	50	50.1	100	50.6	101	1	70-130/25
75-09-2	Methylene chloride	50	50.4	101	51.9	104	3	70-130/25
103-65-1	n-Propylbenzene	50	54.7	109	56.5	113	3	70-130/25
100-42-5	Styrene	50	49.1	98	50.3	101	2	70-130/25
630-20-6	1,1,1,2-Tetrachloroethane	50	53.5	107	53.9	108	1	70-130/25
79-34-5	1,1,2,2-Tetrachloroethane	50	47.2	94	48.5	97	3	70-130/25
127-18-4	Tetrachloroethene	50	50.2	100	51.2	102	2	70-130/25
108-88-3	Toluene	50	50.6	101	51.7	103	2	70-130/25
87-61-6	1,2,3-Trichlorobenzene	50	43.3	87	46.2	92	6	70-130/25
120-82-1	1,2,4-Trichlorobenzene	50	49.1	98	51.7	103	5	70-130/25
71-55-6	1,1,1-Trichloroethane	50	52.8	106	53.6	107	2	70-130/25
79-00-5	1,1,2-Trichloroethane	50	48.9	98	50.9	102	4	70-130/25
79-01-6	Trichloroethene	50	54.3	109	55.2	110	2	70-130/25
75-69-4	Trichlorofluoromethane	50	55.2	110	55.6	111	1	70-130/25
96-18-4	1,2,3-Trichloropropane	50	44.3	89	46.2	92	4	70-130/25
95-63-6	1,2,4-Trimethylbenzene	50	54.6	109	56.6	113	4	70-130/25
108-67-8	1,3,5-Trimethylbenzene	50	55.0	110	56.4	113	3	70-130/25
108-05-4	Vinyl Acetate	50	32.6	65* [a]	34.4	69* [a]	5	70-130/25
75-01-4	Vinyl chloride	50	51.2	102	53.1	106	4	70-130/25
	m,p-Xylene	100	107	107	111	111	4	70-130/25
95-47-6	o-Xylene	50	48.8	98	49.4	99	1	70-130/25

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	109%	111%	70-130%
2037-26-5	Toluene-D8	115%	116%	70-130%
460-00-4	4-Bromofluorobenzene	112%	114%	70-130%

(a) Outside control limits. Blank Spike meets program technical requirements.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: M97346
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
M97347-3MS	E51402.D	5	01/31/11	TD	n/a	n/a	MSE2170
M97347-3MSD	E51403.D	5	01/31/11	TD	n/a	n/a	MSE2170
M97347-3	E51401.D	1	01/31/11	TD	n/a	n/a	MSE2170

The QC reported here applies to the following samples: Method: SW846 8260B

M97346-1, M97346-2, M97346-3, M97346-4

CAS No.	Compound	M97347-3 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		250	229	92	232	93	1	70-130/30
71-43-2	Benzene	8.2		250	282	110	288	112	2	70-130/30
108-86-1	Bromobenzene	ND		250	261	104	274	110	5	70-130/30
74-97-5	Bromochloromethane	ND		250	254	102	260	104	2	70-130/30
75-27-4	Bromodichloromethane	ND		250	243	97	252	101	4	70-130/30
75-25-2	Bromoform	ND		250	178	71	179	72	1	70-130/30
74-83-9	Bromomethane	ND		250	260	104	263	105	1	70-130/30
78-93-3	2-Butanone (MEK)	ND		250	244	98	200	80	20	70-130/30
104-51-8	n-Butylbenzene	ND		250	290	116	308	123	6	70-130/30
135-98-8	sec-Butylbenzene	ND		250	283	113	300	120	6	70-130/30
98-06-6	tert-Butylbenzene	ND		250	282	113	301	120	7	70-130/30
75-15-0	Carbon disulfide	ND		250	236	94	240	96	2	70-130/30
56-23-5	Carbon tetrachloride	ND		250	280	112	289	116	3	70-130/30
108-90-7	Chlorobenzene	ND		250	269	108	273	109	1	70-130/30
75-00-3	Chloroethane	ND		250	267	107	276	110	3	70-130/30
67-66-3	Chloroform	ND		250	274	110	276	110	1	70-130/30
74-87-3	Chloromethane	ND		250	278	111	284	114	2	70-130/30
95-49-8	o-Chlorotoluene	ND		250	275	110	291	116	6	70-130/30
106-43-4	p-Chlorotoluene	ND		250	279	112	293	117	5	70-130/30
96-12-8	1,2-Dibromo-3-chloropropane	ND		250	195	78	204	82	5	70-130/30
124-48-1	Dibromochloromethane	ND		250	211	84	217	87	3	70-130/30
95-50-1	1,2-Dichlorobenzene	ND		250	255	102	265	106	4	70-130/30
541-73-1	1,3-Dichlorobenzene	ND		250	252	101	258	103	2	70-130/30
106-46-7	1,4-Dichlorobenzene	ND		250	273	109	280	112	3	70-130/30
75-71-8	Dichlorodifluoromethane	ND		250	348	139* [a]	350	140* [a]	1	70-130/30
75-34-3	1,1-Dichloroethane	ND		250	278	111	287	115	3	70-130/30
107-06-2	1,2-Dichloroethane	ND		250	237	95	244	98	3	70-130/30
75-35-4	1,1-Dichloroethene	ND		250	273	109	282	113	3	70-130/30
156-59-2	cis-1,2-Dichloroethene	ND		250	240	96	248	99	3	70-130/30
156-60-5	trans-1,2-Dichloroethene	ND		250	260	104	268	107	3	70-130/30
78-87-5	1,2-Dichloropropane	ND		250	254	102	266	106	5	70-130/30
142-28-9	1,3-Dichloropropane	ND		250	230	92	242	97	5	70-130/30
594-20-7	2,2-Dichloropropane	ND		250	303	121	305	122	1	70-130/30
563-58-6	1,1-Dichloropropene	ND		250	277	111	282	113	2	70-130/30
10061-01-5	cis-1,3-Dichloropropene	ND		250	244	98	252	101	3	70-130/30
10061-02-6	trans-1,3-Dichloropropene	ND		250	247	99	256	102	4	70-130/30

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: M97346
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
M97347-3MS	E51402.D	5	01/31/11	TD	n/a	n/a	MSE2170
M97347-3MSD	E51403.D	5	01/31/11	TD	n/a	n/a	MSE2170
M97347-3	E51401.D	1	01/31/11	TD	n/a	n/a	MSE2170

The QC reported here applies to the following samples: Method: SW846 8260B

M97346-1, M97346-2, M97346-3, M97346-4

CAS No.	Compound	M97347-3 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
100-41-4	Ethylbenzene	ND		250	270	108	282	113	4	70-130/30
87-68-3	Hexachlorobutadiene	ND		250	311	124	334	134* [a]	7	70-130/30
98-82-8	Isopropylbenzene	ND		250	315	126	336	134* [a]	6	70-130/30
99-87-6	p-Isopropyltoluene	ND		250	290	116	307	123	6	70-130/30
1634-04-4	Methyl Tert Butyl Ether	1.6		250	200	79	209	83	4	70-130/30
74-95-3	Methylene bromide	ND		250	250	100	249	100	0	70-130/30
75-09-2	Methylene chloride	ND		250	256	102	265	106	3	70-130/30
103-65-1	n-Propylbenzene	ND		250	275	110	290	116	5	70-130/30
100-42-5	Styrene	ND		250	209	84	215	86	3	70-130/30
630-20-6	1,1,1,2-Tetrachloroethane	ND		250	269	108	277	111	3	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	ND		250	232	93	236	94	2	70-130/30
127-18-4	Tetrachloroethene	ND		250	256	102	264	106	3	70-130/30
108-88-3	Toluene	ND		250	251	100	254	102	1	70-130/30
87-61-6	1,2,3-Trichlorobenzene	ND		250	216	86	232	93	7	70-130/30
120-82-1	1,2,4-Trichlorobenzene	ND		250	238	95	260	104	9	70-130/30
71-55-6	1,1,1-Trichloroethane	ND		250	279	112	282	113	1	70-130/30
79-00-5	1,1,2-Trichloroethane	ND		250	248	99	243	97	2	70-130/30
79-01-6	Trichloroethene	ND		250	270	108	275	110	2	70-130/30
75-69-4	Trichlorofluoromethane	ND		250	293	117	304	122	4	70-130/30
96-18-4	1,2,3-Trichloropropane	ND		250	204	82	218	87	7	70-130/30
95-63-6	1,2,4-Trimethylbenzene	ND		250	254	102	272	109	7	70-130/30
108-67-8	1,3,5-Trimethylbenzene	ND		250	261	104	279	112	7	70-130/30
108-05-4	Vinyl Acetate	ND		250	149	60* [a]	160	64* [a]	7	70-130/30
75-01-4	Vinyl chloride	ND		250	276	110	284	114	3	70-130/30
	m,p-Xylene	ND		500	538	108	556	111	3	70-130/30
95-47-6	o-Xylene	ND		250	243	97	250	100	3	70-130/30

CAS No.	Surrogate Recoveries	MS	MSD	M97347-3	Limits
1868-53-7	Dibromofluoromethane	108%	110%	114%	70-130%
2037-26-5	Toluene-D8	112%	113%	118%	70-130%
460-00-4	4-Bromofluorobenzene	108%	115%	112%	70-130%

(a) Outside control limits due to possible matrix interference. Refer to Blank Spike.

Volatile Internal Standard Area Summary

Job Number: M97346
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Check Std:	MSE2170-CC2152	Injection Date:	01/31/11
Lab File ID:	E51390.D	Injection Time:	10:10
Instrument ID:	GCMSE	Method:	SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	258610	9.10	421768	9.98	186730	13.24	181279	15.80	45421	6.61
Upper Limit [a]	517220	9.60	843536	10.48	373460	13.74	362558	16.30	90842	7.11
Lower Limit [b]	129305	8.60	210884	9.48	93365	12.74	90640	15.30	22711	6.11
Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
MSE2170-BS	260644	9.10	422955	9.97	189126	13.24	176962	15.80	43862	6.61
MSE2170-BSD	255699	9.10	415613	9.97	185442	13.24	172080	15.80	44740	6.60
MSE2170-MB	242359	9.09	389164	9.97	166698	13.24	158217	15.80	39770	6.61
ZZZZZZ	236819	9.10	380812	9.97	162514	13.25	153840	15.80	37004	6.61
ZZZZZZ	250666	9.10	399919	9.98	168270	13.24	160247	15.81	40885	6.61
ZZZZZZ	246889	9.10	397174	9.98	165727	13.24	161053	15.80	42108	6.60
ZZZZZZ	236949	9.10	380012	9.98	162471	13.24	151386	15.81	33128	6.61
ZZZZZZ	238982	9.10	383811	9.97	163262	13.24	156243	15.80	40223	6.61
M97346-4	237548	9.10	376532	9.97	161884	13.25	151687	15.80	35730	6.62
M97347-3	233433	9.09	374476	9.98	157549	13.24	149198	15.80	37233	6.60
M97347-3MS	242688	9.10	398125	9.97	176314	13.24	170130	15.80	37199	6.61
M97347-3MSD	244229	9.09	400072	9.98	174295	13.24	163410	15.80	36875	6.60
ZZZZZZ	237201	9.09	378277	9.97	157690	13.24	153787	15.80	36247	6.60
M97346-1	241972	9.10	382213	9.98	164786	13.24	151740	15.80	36929	6.61
M97346-2	233061	9.10	376272	9.97	158030	13.24	147882	15.80	35185	6.61
M97346-3	237457	9.10	381939	9.97	162081	13.24	154036	15.80	34352	6.60
ZZZZZZ	225056	9.09	367319	9.97	153964	13.24	145320	15.80	34019	6.61
ZZZZZZ	220505	9.09	361291	9.98	153410	13.24	142387	15.80	35261	6.60
ZZZZZZ	222436	9.10	354027	9.97	150787	13.24	146005	15.80	31157	6.61
ZZZZZZ	223741	9.09	352296	9.98	156478	13.24	144588	15.80	36835	6.60
ZZZZZZ	220666	9.10	355602	9.98	151629	13.24	144221	15.80	35853	6.61
ZZZZZZ	223768	9.09	361745	9.97	153859	13.24	143640	15.80	32181	6.60
ZZZZZZ	215077	9.10	356557	9.97	153432	13.24	142576	15.80	32321	6.60

IS 1 = Pentafluorobenzene
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5
IS 4 = 1,4-Dichlorobenzene-d4
IS 5 = Tert Butyl Alcohol-D9

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Surrogate Recovery Summary

Job Number: M97346
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Method: SW846 8260B Matrix: AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
M97346-1	E51405.D	106.0	111.0	108.0
M97346-2	E51406.D	112.0	113.0	110.0
M97346-3	E51407.D	110.0	107.0	106.0
M97346-4	E51400.D	110.0	114.0	110.0
M97347-3MS	E51402.D	108.0	112.0	108.0
M97347-3MSD	E51403.D	110.0	113.0	115.0
MSE2170-BS	E51391.D	109.0	115.0	112.0
MSE2170-BSD	E51392.D	111.0	116.0	114.0
MSE2170-MB	E51394.D	112.0	116.0	110.0

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	70-130%
S2 = Toluene-D8	70-130%
S3 = 4-Bromofluorobenzene	70-130%

GC/MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: M97346
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP23942-MB	I70221.D	1	02/02/11	AA	01/25/11	OP23942	MSI2472

The QC reported here applies to the following samples: Method: SW846 8270C

M97346-1, M97346-2, M97346-3

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	10	0.77	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	0.68	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.57	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.69	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	2.2	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	2.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	5.0	ug/l	
95-48-7	2-Methylphenol	ND	10	0.48	ug/l	
	3&4-Methylphenol	ND	10	0.63	ug/l	
88-75-5	2-Nitrophenol	ND	10	0.66	ug/l	
100-02-7	4-Nitrophenol	ND	20	5.0	ug/l	
87-86-5	Pentachlorophenol	ND	10	3.3	ug/l	
108-95-2	Phenol	ND	5.0	2.1	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.40	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.38	ug/l	
83-32-9	Acenaphthene	ND	5.0	0.34	ug/l	
208-96-8	Acenaphthylene	ND	5.0	1.3	ug/l	
62-53-3	Aniline	ND	10	0.46	ug/l	
120-12-7	Anthracene	ND	5.0	0.27	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	0.27	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	0.23	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	0.27	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	0.61	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	0.29	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	0.32	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	0.41	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.31	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.58	ug/l	
218-01-9	Chrysene	ND	5.0	0.22	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	0.35	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	0.23	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	0.21	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	0.61	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	1.3	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.34	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	2.5	ug/l	

Method Blank Summary

Job Number: M97346
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP23942-MB	I70221.D	1	02/02/11	AA	01/25/11	OP23942	MSI2472

The QC reported here applies to the following samples: Method: SW846 8270C

M97346-1, M97346-2, M97346-3

CAS No.	Compound	Result	RL	MDL	Units	Q
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	0.25	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.32	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	0.34	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	0.34	ug/l	
84-66-2	Diethyl phthalate	1.8	5.0	0.61	ug/l	J
131-11-3	Dimethyl phthalate	ND	5.0	1.3	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.49	ug/l	
206-44-0	Fluoranthene	ND	5.0	0.22	ug/l	
86-73-7	Fluorene	ND	5.0	0.29	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	0.16	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	2.5	ug/l	
67-72-1	Hexachloroethane	ND	5.0	0.43	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	0.29	ug/l	
78-59-1	Isophorone	ND	5.0	0.47	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	0.31	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.33	ug/l	
99-09-2	3-Nitroaniline	ND	10	0.32	ug/l	
100-01-6	4-Nitroaniline	ND	10	0.33	ug/l	
91-20-3	Naphthalene	ND	5.0	0.33	ug/l	
98-95-3	Nitrobenzene	ND	5.0	0.31	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	0.41	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.61	ug/l	
85-01-8	Phenanthrene	ND	5.0	0.26	ug/l	
129-00-0	Pyrene	ND	5.0	0.25	ug/l	
110-86-1	Pyridine	ND	10	0.50	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	43%	15-110%
4165-62-2	Phenol-d5	26%	15-110%
118-79-6	2,4,6-Tribromophenol	65%	15-110%
4165-60-0	Nitrobenzene-d5	74%	30-130%
321-60-8	2-Fluorobiphenyl	73%	30-130%
1718-51-0	Terphenyl-d14	82%	30-130%

Blank Spike Summary

Job Number: M97346
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP23942-BS	I70222.D	1	02/02/11	AA	01/25/11	OP23942	MSI2472

The QC reported here applies to the following samples: Method: SW846 8270C

M97346-1, M97346-2, M97346-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
65-85-0	Benzoic Acid	100	18.3	18* [a]	30-130
95-57-8	2-Chlorophenol	100	78.4	78	30-130
59-50-7	4-Chloro-3-methyl phenol	100	84.5	85	30-130
120-83-2	2,4-Dichlorophenol	100	85.8	86	30-130
105-67-9	2,4-Dimethylphenol	100	76.4	76	30-130
51-28-5	2,4-Dinitrophenol	100	86.5	87	30-130
534-52-1	4,6-Dinitro-o-cresol	100	85.1	85	30-130
95-48-7	2-Methylphenol	100	72.7	73	30-130
	3&4-Methylphenol	200	133	67	30-130
88-75-5	2-Nitrophenol	100	85.5	86	30-130
100-02-7	4-Nitrophenol	100	46.5	47	30-130
87-86-5	Pentachlorophenol	100	78.1	78	30-130
108-95-2	Phenol	100	34.1	34	30-130
95-95-4	2,4,5-Trichlorophenol	100	85.1	85	30-130
88-06-2	2,4,6-Trichlorophenol	100	85.2	85	30-130
83-32-9	Acenaphthene	50	43.2	86	40-140
208-96-8	Acenaphthylene	50	35.3	71	40-140
62-53-3	Aniline	50	32.3	65	40-140
120-12-7	Anthracene	50	41.9	84	40-140
56-55-3	Benzo(a)anthracene	50	47.4	95	40-140
50-32-8	Benzo(a)pyrene	50	39.3	79	40-140
205-99-2	Benzo(b)fluoranthene	50	44.9	90	40-140
191-24-2	Benzo(g,h,i)perylene	50	35.4	71	40-140
207-08-9	Benzo(k)fluoranthene	50	45.6	91	40-140
101-55-3	4-Bromophenyl phenyl ether	50	42.3	85	40-140
85-68-7	Butyl benzyl phthalate	50	46.2	92	40-140
91-58-7	2-Chloronaphthalene	50	42.1	84	40-140
106-47-8	4-Chloroaniline	50	34.8	70	40-140
218-01-9	Chrysene	50	50.1	100	40-140
111-91-1	bis(2-Chloroethoxy)methane	50	41.7	83	40-140
111-44-4	bis(2-Chloroethyl)ether	50	43.3	87	40-140
108-60-1	bis(2-Chloroisopropyl)ether	50	45.3	91	40-140
7005-72-3	4-Chlorophenyl phenyl ether	50	43.9	88	40-140
121-14-2	2,4-Dinitrotoluene	50	44.9	90	40-140
606-20-2	2,6-Dinitrotoluene	50	43.6	87	40-140
91-94-1	3,3'-Dichlorobenzidine	50	38.2	76	40-140

Blank Spike Summary

Job Number: M97346
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP23942-BS	I70222.D	1	02/02/11	AA	01/25/11	OP23942	MSI2472

The QC reported here applies to the following samples: Method: SW846 8270C

M97346-1, M97346-2, M97346-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
53-70-3	Dibenzo(a,h)anthracene	50	37.7	75	40-140
132-64-9	Dibenzofuran	50	41.9	84	40-140
84-74-2	Di-n-butyl phthalate	50	45.7	91	40-140
117-84-0	Di-n-octyl phthalate	50	51.7	103	40-140
84-66-2	Diethyl phthalate	50	46.7	93	40-140
131-11-3	Dimethyl phthalate	50	44.7	89	40-140
117-81-7	bis(2-Ethylhexyl)phthalate	50	48.1	96	40-140
206-44-0	Fluoranthene	50	46.0	92	40-140
86-73-7	Fluorene	50	44.3	89	40-140
118-74-1	Hexachlorobenzene	50	42.6	85	40-140
77-47-4	Hexachlorocyclopentadiene	50	30.2	60	40-140
67-72-1	Hexachloroethane	50	38.6	77	40-140
193-39-5	Indeno(1,2,3-cd)pyrene	50	37.7	75	40-140
78-59-1	Isophorone	50	41.5	83	40-140
91-57-6	2-Methylnaphthalene	50	39.4	79	40-140
88-74-4	2-Nitroaniline	50	44.6	89	40-140
99-09-2	3-Nitroaniline	50	34.9	70	40-140
100-01-6	4-Nitroaniline	50	42.0	84	40-140
91-20-3	Naphthalene	50	42.4	85	40-140
98-95-3	Nitrobenzene	50	41.4	83	40-140
621-64-7	N-Nitroso-di-n-propylamine	50	46.3	93	40-140
86-30-6	N-Nitrosodiphenylamine	50	43.0	86	40-140
85-01-8	Phenanthrene	50	43.1	86	40-140
129-00-0	Pyrene	50	43.8	88	40-140
110-86-1	Pyridine	50	26.1	52	40-140

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	50%	15-110%
4165-62-2	Phenol-d5	32%	15-110%
118-79-6	2,4,6-Tribromophenol	78%	15-110%
4165-60-0	Nitrobenzene-d5	83%	30-130%
321-60-8	2-Fluorobiphenyl	81%	30-130%
1718-51-0	Terphenyl-d14	85%	30-130%

Blank Spike Summary

Job Number: M97346
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP23942-BS	I70222.D	1	02/02/11	AA	01/25/11	OP23942	MSI2472

The QC reported here applies to the following samples: **Method:** SW846 8270C

M97346-1, M97346-2, M97346-3

(a) Outside control limits. Blank Spike meets program technical requirements.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: M97346
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP23942-MS	I70223.D	1	02/02/11	AA	01/25/11	OP23942	MSI2472
OP23942-MSD	I70224.D	1	02/02/11	AA	01/25/11	OP23942	MSI2472
M97378-1	I70225.D	1	02/02/11	AA	01/25/11	OP23942	MSI2472

The QC reported here applies to the following samples: Method: SW846 8270C

M97346-1, M97346-2, M97346-3

CAS No.	Compound	M97378-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
65-85-0	Benzoic Acid	ND		100	20.3	20* [a]	22.4	22* [a]	10	30-130/20
95-57-8	2-Chlorophenol	ND		100	79.9	80	76.7	77	4	30-130/20
59-50-7	4-Chloro-3-methyl phenol	ND		100	88.6	89	84.6	85	5	30-130/20
120-83-2	2,4-Dichlorophenol	ND		100	87.5	88	84.5	85	3	30-130/20
105-67-9	2,4-Dimethylphenol	ND		100	69.4	69	68.8	69	1	30-130/20
51-28-5	2,4-Dinitrophenol	ND		100	88.8	89	89.1	89	0	30-130/20
534-52-1	4,6-Dinitro-o-cresol	ND		100	87.3	87	88.7	89	2	30-130/20
95-48-7	2-Methylphenol	ND		100	71.7	72	70.4	70	2	30-130/20
	3&4-Methylphenol	ND		200	134	67	129	65	4	30-130/20
88-75-5	2-Nitrophenol	ND		100	87.8	88	85.1	85	3	30-130/20
100-02-7	4-Nitrophenol	ND		100	45.4	45	45.2	45	0	30-130/20
87-86-5	Pentachlorophenol	ND		100	83.9	84	80.8	81	4	30-130/20
108-95-2	Phenol	ND		100	34.0	34	33.4	33	2	30-130/20
95-95-4	2,4,5-Trichlorophenol	ND		100	87.0	87	82.6	83	5	30-130/20
88-06-2	2,4,6-Trichlorophenol	ND		100	87.2	87	84.2	84	4	30-130/20
83-32-9	Acenaphthene	ND		50	43.5	87	41.1	82	6	40-140/20
208-96-8	Acenaphthylene	ND		50	36.2	72	34.9	70	4	40-140/20
62-53-3	Aniline	ND		50	24.7	49	27.8	56	12	40-140/20
120-12-7	Anthracene	ND		50	41.6	83	40.6	81	2	40-140/20
56-55-3	Benzo(a)anthracene	ND		50	48.5	97	46.8	94	4	40-140/20
50-32-8	Benzo(a)pyrene	ND		50	40.5	81	39.0	78	4	40-140/20
205-99-2	Benzo(b)fluoranthene	ND		50	46.3	93	43.9	88	5	40-140/20
191-24-2	Benzo(g,h,i)perylene	ND		50	35.8	72	33.5	67	7	40-140/20
207-08-9	Benzo(k)fluoranthene	ND		50	47.3	95	47.0	94	1	40-140/20
101-55-3	4-Bromophenyl phenyl ether	ND		50	43.4	87	41.8	84	4	40-140/20
85-68-7	Butyl benzyl phthalate	ND		50	46.9	94	45.6	91	3	40-140/20
91-58-7	2-Chloronaphthalene	ND		50	43.0	86	41.3	83	4	40-140/20
106-47-8	4-Chloroaniline	ND		50	18.3	37* [a]	21.2	42	15	40-140/20
218-01-9	Chrysene	ND		50	51.4	103	48.5	97	6	40-140/20
111-91-1	bis(2-Chloroethoxy)methane	ND		50	43.1	86	41.6	83	4	40-140/20
111-44-4	bis(2-Chloroethyl)ether	ND		50	44.8	90	41.7	83	7	40-140/20
108-60-1	bis(2-Chloroisopropyl)ether	ND		50	46.0	92	41.6	83	10	40-140/20
7005-72-3	4-Chlorophenyl phenyl ether	ND		50	43.7	87	41.1	82	6	40-140/20
121-14-2	2,4-Dinitrotoluene	ND		50	44.9	90	43.9	88	2	40-140/20
606-20-2	2,6-Dinitrotoluene	ND		50	44.3	89	43.3	87	2	40-140/20
91-94-1	3,3'-Dichlorobenzidine	ND		50	29.1	58	28.9	58	1	40-140/20

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: M97346
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP23942-MS	I70223.D	1	02/02/11	AA	01/25/11	OP23942	MSI2472
OP23942-MSD	I70224.D	1	02/02/11	AA	01/25/11	OP23942	MSI2472
M97378-1	I70225.D	1	02/02/11	AA	01/25/11	OP23942	MSI2472

The QC reported here applies to the following samples: Method: SW846 8270C

M97346-1, M97346-2, M97346-3

CAS No.	Compound	M97378-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
53-70-3	Dibenzo(a,h)anthracene	ND		50	38.2	76	36.1	72	6	40-140/20
132-64-9	Dibenzofuran	ND		50	42.2	84	40.3	81	5	40-140/20
84-74-2	Di-n-butyl phthalate	ND		50	45.8	92	44.8	90	2	40-140/20
117-84-0	Di-n-octyl phthalate	ND		50	53.7	107	52.7	105	2	40-140/20
84-66-2	Diethyl phthalate	1.6		50	46.8	90	45.2	87	3	40-140/20
131-11-3	Dimethyl phthalate	ND		50	44.7	89	43.7	87	2	40-140/20
117-81-7	bis(2-Ethylhexyl)phthalate	ND		50	49.1	98	47.7	95	3	40-140/20
206-44-0	Fluoranthene	ND		50	46.1	92	44.1	88	4	40-140/20
86-73-7	Fluorene	ND		50	44.4	89	42.1	84	5	40-140/20
118-74-1	Hexachlorobenzene	ND		50	43.7	87	41.6	83	5	40-140/20
77-47-4	Hexachlorocyclopentadiene	ND		50	31.4	63	30.8	62	2	40-140/20
67-72-1	Hexachloroethane	ND		50	39.5	79	37.4	75	5	40-140/20
193-39-5	Indeno(1,2,3-cd)pyrene	ND		50	38.4	77	36.6	73	5	40-140/20
78-59-1	Isophorone	ND		50	43.0	86	41.3	83	4	40-140/20
91-57-6	2-Methylnaphthalene	ND		50	41.0	82	38.3	77	7	40-140/20
88-74-4	2-Nitroaniline	ND		50	45.3	91	44.0	88	3	40-140/20
99-09-2	3-Nitroaniline	ND		50	21.9	44	24.6	49	12	40-140/20
100-01-6	4-Nitroaniline	ND		50	38.6	77	38.8	78	1	40-140/20
91-20-3	Naphthalene	ND		50	43.8	88	41.9	84	4	40-140/20
98-95-3	Nitrobenzene	ND		50	42.0	84	40.8	82	3	40-140/20
621-64-7	N-Nitroso-di-n-propylamine	ND		50	48.1	96	44.5	89	8	40-140/20
86-30-6	N-Nitrosodiphenylamine	ND		50	44.3	89	42.5	85	4	40-140/20
85-01-8	Phenanthrene	ND		50	43.6	87	42.4	85	3	40-140/20
129-00-0	Pyrene	ND		50	44.4	89	43.0	86	3	40-140/20
110-86-1	Pyridine	ND		50	24.9	50	28.2	56	12	40-140/20

CAS No.	Surrogate Recoveries	MS	MSD	M97378-1	Limits
367-12-4	2-Fluorophenol	49%	49%	35%	15-110%
4165-62-2	Phenol-d5	31%	31%	21%	15-110%
118-79-6	2,4,6-Tribromophenol	78%	76%	59%	15-110%
4165-60-0	Nitrobenzene-d5	84%	80%	64%	30-130%
321-60-8	2-Fluorobiphenyl	82%	78%	65%	30-130%
1718-51-0	Terphenyl-d14	86%	85%	73%	30-130%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: M97346
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP23942-MS	I70223.D	1	02/02/11	AA	01/25/11	OP23942	MSI2472
OP23942-MSD	I70224.D	1	02/02/11	AA	01/25/11	OP23942	MSI2472
M97378-1	I70225.D	1	02/02/11	AA	01/25/11	OP23942	MSI2472

The QC reported here applies to the following samples: Method: SW846 8270C

M97346-1, M97346-2, M97346-3

(a) Outside control limits due to possible matrix interference. Refer to Blank Spike.

Semivolatile Internal Standard Area Summary

Job Number: M97346
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Check Std:	MSI2472-CC2467	Injection Date:	02/02/11
Lab File ID:	I70217.D	Injection Time:	12:31
Instrument ID:	GCMSI	Method:	SW846 8270C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	292933	5.83	1097131	7.18	550055	9.67	902740	12.22	810859	17.20	707204	19.75
Upper Limit [a]	585866	6.33	2194262	7.68	1100110	10.17	1805480	12.72	1621718	17.70	1414408	20.25
Lower Limit [b]	146467	5.33	548566	6.68	275028	9.17	451370	11.72	405430	16.70	353602	19.25
Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
ZZZZZZ	283222	5.83	1084662	7.17	544971	9.67	894222	12.21	748949	17.19	641120	19.74
ZZZZZZ	304905	5.83	1164586	7.17	591102	9.67	965005	12.22	818052	17.20	700266	19.74
OP23942-MB	273706	5.83	1040413	7.17	527168	9.67	860523	12.22	743118	17.19	658728	19.74
OP23942-BS	252157	5.83	957662	7.17	473238	9.67	775808	12.22	689687	17.20	627759	19.74
OP23942-MS	260122	5.83	989310	7.17	500497	9.67	814896	12.22	722322	17.20	642526	19.74
OP23942-MSD	299395	5.83	1118022	7.17	551394	9.67	881335	12.22	765990	17.20	661545	19.74
M97378-1	262832	5.83	990445	7.17	495978	9.67	810599	12.21	701280	17.19	633202	19.74
ZZZZZZ	251252	5.83	947311	7.17	482552	9.67	783972	12.21	682158	17.19	607960	19.74
ZZZZZZ	258382	5.83	996174	7.17	494269	9.67	807884	12.21	701949	17.19	628283	19.74
ZZZZZZ	266583	5.83	1043941	7.18	531365	9.68	888782	12.23	788659	17.21	731119	19.75
ZZZZZZ	247082	5.83	917076	7.17	465023	9.67	767257	12.21	675145	17.19	631847	19.74
ZZZZZZ	264943	5.83	981407	7.17	487666	9.67	809096	12.21	702523	17.19	632100	19.74
ZZZZZZ	258274	5.83	965175	7.17	484318	9.67	791603	12.21	687327	17.19	622567	19.74
ZZZZZZ	232860	5.83	873207	7.17	447155	9.67	747819	12.21	653918	17.19	601004	19.74
ZZZZZZ	244343	5.83	922740	7.17	460954	9.67	758191	12.22	660731	17.19	579604	19.74
ZZZZZZ	246163	5.83	926909	7.17	462415	9.67	763454	12.21	656129	17.19	588324	19.74
ZZZZZZ	234573	5.83	891727	7.17	455255	9.67	745866	12.21	669674	17.19	596765	19.74

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: M97346
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Check Std:	MSS888-CC884	Injection Date:	02/02/11
Lab File ID:	S21213.D	Injection Time:	12:54
Instrument ID:	GCMSS	Method:	SW846 8270C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	163195	5.72	636245	7.07	303706	9.25	456723	11.44	428438	15.79	414759	18.02
Upper Limit [a]	326390	6.22	1272490	7.57	607412	9.75	913446	11.94	856876	16.29	829518	18.52
Lower Limit [b]	81598	5.22	318123	6.57	151853	8.75	228362	10.94	214219	15.29	207380	17.52
Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
ZZZZZZ	153876	5.72	644200	7.07	311817	9.25	478355	11.43	432471	15.78	430786	18.02
ZZZZZZ	188231	5.72	756203	7.07	372070	9.25	547151	11.43	468631	15.79	448103	18.02
ZZZZZZ	180844	5.72	744597	7.07	363502	9.25	554158	11.43	492731	15.79	481183	18.02
ZZZZZZ	133383	5.72	556129	7.07	267158	9.25	412175	11.43	367456	15.78	359904	18.02
M97346-1	196045	5.72	805982	7.07	391757	9.25	581409	11.43	491353	15.79	471756	18.02
M97346-2	187772	5.72	778262	7.07	373597	9.25	562799	11.43	507506	15.79	488668	18.02
M97346-3	197713	5.72	822333	7.07	397650	9.25	609042	11.43	538695	15.79	522884	18.02
ZZZZZZ	186149	5.72	752311	7.07	368481	9.25	561793	11.43	508037	15.79	496618	18.02
ZZZZZZ	194109	5.72	798381	7.07	394050	9.25	590743	11.43	529269	15.78	507312	18.02
OP23982-MS	173864	5.72	665027	7.07	319891	9.25	478058	11.44	428244	15.79	429183	18.02
OP23982-MSD	174057	5.72	677142	7.07	323062	9.25	487152	11.43	441664	15.79	437928	18.02
ZZZZZZ	172579	5.72	702657	7.07	341221	9.25	531801	11.43	462993	15.78	468300	18.02
M97427-2	171997	5.72	701838	7.07	343974	9.25	521496	11.43	464968	15.78	458609	18.02
ZZZZZZ	178896	5.72	714774	7.07	351291	9.25	547595	11.43	461989	15.78	464311	18.02
ZZZZZZ	181307	5.72	744551	7.07	356081	9.25	547214	11.43	487837	15.78	480694	18.02
ZZZZZZ	185150	5.72	769476	7.06	368321	9.25	552772	11.43	509251	15.78	488099	18.01
OP23963-MB	223635	5.72	904117	7.06	444024	9.25	667369	11.43	570705	15.78	517933	18.01
OP23963-BS	186914	5.72	726279	7.07	342642	9.25	512609	11.43	449976	15.78	399841	18.02
OP23963-MS	183005	5.72	707658	7.06	332292	9.25	481805	11.43	405146	15.78	365992	18.01
OP23963-MSD	207483	5.72	810349	7.07	400003	9.25	602490	11.43	496412	15.78	458168	18.02
M97350-10	202524	5.72	844111	7.06	400402	9.25	594470	11.43	502754	15.78	475366	18.01

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Surrogate Recovery Summary

Job Number: M97346
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Method: SW846 8270C Matrix: AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
M97346-1	S21218.D	39.0	24.0	88.0	71.0	73.0	76.0
M97346-2	S21219.D	38.0	24.0	90.0	73.0	74.0	78.0
M97346-3	S21220.D	39.0	24.0	82.0	75.0	75.0	73.0
OP23942-BS	I70222.D	50.0	32.0	78.0	83.0	81.0	85.0
OP23942-MB	I70221.D	43.0	26.0	65.0	74.0	73.0	82.0
OP23942-MS	I70223.D	49.0	31.0	78.0	84.0	82.0	86.0
OP23942-MSD	I70224.D	49.0	31.0	76.0	80.0	78.0	85.0

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	15-110%
S2 = Phenol-d5	15-110%
S3 = 2,4,6-Tribromophenol	15-110%
S4 = Nitrobenzene-d5	30-130%
S5 = 2-Fluorobiphenyl	30-130%
S6 = Terphenyl-d14	30-130%

Roxana Groundwater Quarterly – 1st Quarter 2011

Laboratory SDG: M97347

Data Reviewer: Wendy Buchman

Peer Reviewer: Elizabeth Kunkel

Date Reviewed: 2/23/2011

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review 2008

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review 2008

Sample Identification	Sample Identification
TB-ROX-011911	MW6A-ROX-011911
MW6B-ROX-011911	MW6B-ROX-011911DUP
MW6A-ROX-011911EB	MW6C-ROX-012011EB

1.0 Data Package Completeness

Were all items delivered as specified in the QAPP and COC as appropriate?

Yes

2.0 Laboratory Case Narrative \ Cooler Receipt Form

Were problems noted in the laboratory case narrative or cooler receipt form?

Yes, the laboratory case narrative indicated VOC MS/MSD recoveries were outside evaluation criteria. VOC LCS/LCSD recoveries were outside evaluation criteria. SVOC LCS/LCSD recoveries and LCS/LCSD RPDs were outside evaluation criteria. Additionally, diethyl phthalate was detected in the method blank. These issues are addressed further in the appropriate sections below.

The cooler receipt form indicated samples were received by the laboratory at 1.1ºC which was outside the 4ºC ± 2ºC criteria. The samples were received in good condition; therefore, no qualification of data was required. Additionally, the cooler receipt form erroneously indicated N/A for the quality control/preservation questions, trip blank present in cooler and trip blank listed on the COC. A trip blank was included in the cooler and it was listed on the COC.

3.0 Holding Times

Were samples extracted/analyzed within applicable limits?

Yes

4.0 Blank Contamination

Were any analytes detected in the Method Blanks, Field Blanks or Trip Blanks?

Yes

Blank ID	Parameter	Analyte	Concentration/Amount
OP23942-MB	SVOCs	Diethyl phthalate	1.8 µg/L
MW6A-ROX-011911EB	SVOCs	Diethyl phthalate	0.67 µg/L
MW6C-ROX-012011EB	SVOCs	Diethyl phthalate	0.99 µg/L

Qualifications due to blank contamination are included in the table below. Analytical data that were reported non-detect or at concentrations greater than five times (5X) the associated blank concentration (10X for common laboratory contaminants) did not require qualification.

Sample ID	Parameter	Analyte	New Reporting Limit (RL)	Qualification
MW6A-ROX-011911	SVOCs	Diethyl phthalate	-	**U**
MW6B-ROX-011911	SVOCs	Diethyl phthalate	-	**U**
MW6B-ROX-011911DUP	SVOCs	Diethyl phthalate	-	**U**

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

No

LCS/ LCSD ID	Parameter	Analyte	LCS/LCSD Recovery	RPD	LCS/LCSD/ RPD Criteria
MSN1853-BS/BSD	VOCs	Acetone	91/**58**	**44**	70-130/25
MSN1853-BS/BSD	VOCs	2-Butanone	106/**35**	**35**	70-130/25
MSN1853-BS/BSD	VOCs	Chloroethane	**68**/**62**	9	70-130/25
MSN1853-BS/BSD	VOCs	Tetrachloroethene	**135**/130	4	70-130/25
MSN1853-BS/BSD	VOCs	Vinyl acetate	**48**/**48**	1	70-130/25
MSE2170-BS/BSD	VOCs	Dichlorodifluoromethane	129/**131**	2	70-130/25
MSE2170-BS/BSD	VOCs	Isopropylbenzene	126/**131**	4	70-130/25
MSE2170-BS/BSD	VOCs	Vinyl Acetate	**65**/**69**	5	70-130/25
OP239420BS	SVOCs	Benzoic Acid	**18**	NA	30-130

Analytical data that required qualification based on LCS data are included in the table below. Analytical data reported as non-detect and associated with LCS recoveries above evaluation criteria, indicating a possible high bias, did not require qualification.

Field ID	Parameter	Analyte	Qualification
MW6A-ROX-011911	VOCs	Chloroethane	**UJ**
MW6A-ROX-011911	VOCs	Vinyl Acetate	**UJ**
MW6A-ROX-011911	SVOCs	Benzoic Acid	**J**

Field ID	Parameter	Analyte	Qualification
MW6B-ROX-011911	VOCs	Vinyl Acetate	**UJ**
MW6B-ROX-011911	SVOCs	Benzoic Acid	**UJ**
MW6B-ROX-011911DUP	VOCs	Vinyl Acetate	**UJ**
MW6B-ROX-011911DUP	SVOCs	Benzoic Acid	**UJ**

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

Yes

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

Were MS/MSD samples analyzed as part of this SDG?

Yes. Sample MW6B-ROX-011911 was spiked and analyzed for VOCs.

Were MS/MSD recoveries within evaluation criteria?

No

MS/MSD ID	Parameter	Analyte	MS/MSD Recovery	RPD	MS/MSD/RPD Criteria
MW6B-ROX-011911	VOCs	Dichlorodifluoromethane	**139**/**140**	1	70-130/30
MW6B-ROX-011911	VOCs	Hexachlorobutadiene	124/**134**	7	70-130/30
MW6B-ROX-011911	VOCs	Isopropylbenzene	126/**134**	6	70-130/30
MW6B-ROX-011911	VOCs	Vinyl Acetate	**60**/**64**	7	70-130/30

Analytical results reported as non-detect and associated with MS/MSD recoveries above evaluation criteria, indicating a high bias, did not require qualification. USEPA National Functional Guidelines for Organic Data Review indicates that organic data does not require qualification based on MS/MSD data alone and dichlorodifluoromethane, isopropylbenzene, and vinyl acetate were previously qualified due to LCS recoveries outside evaluation criteria. No further qualification of data was required.

8.0 Internal Standard (IS) Recoveries

Were internal standard area recoveries within evaluation criteria?

Yes

9.0 Laboratory Duplicate Results

Were laboratory duplicate samples collected as part of this SDG?

No

10.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

Yes

Field ID	Field Duplicate ID
MW6B-ROX-011911	MW6B-ROX-011911DUP

Were field duplicates within evaluation criteria?

Yes

11.0 Sample Dilutions

For samples that were diluted and nondetect, were undiluted results also reported?

Not applicable; samples analyzed did not require a dilution.

12.0 Additional Qualifications

Were additional qualifications applied?

Yes, professional judgment was used to qualify the common laboratory contaminant acetone reported at concentrations greater than two times (2X) the reporting limit (RL), since acetone is not representative of site conditions.

Sample ID	Analyte	New RL	Qualification	Comment
MW6A-ROX-011911	Acetone	13.5	**U**	Professional Judgment

New England ACCUTEST LABORATORIES

03/08/11

Technical Report for

Shell Oil

URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

SAP#340061

Accutest Job Number: M97347

Sampling Dates: 01/19/11 - 01/20/11

Report to:

URS Corporation

Elizabeth_Kunkel@URSCorp.com

ATTN: Elizabeth Kunkel

Reviewed on 3/8/2011

Total number of pages in report: **62**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Reza Pand
Lab Director

Client Service contact: Kristen Blanchard 508-481-6200

Certifications: MA (M-MA136,SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) ME (MA00136) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO MN (11546AA) NC (653) IL (002337) ISO 17025:2005 (L2235)

Test results relate only to samples analyzed.

Sections: 1 2 3 4 5 6

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Sample Summary

Shell Oil

Job No: M97347

URSMOSTL:97216640 170 East Rand Avenue Hartford, IL
Project No: SAP#340061

Sample Number	Collected Date	Time By	Received	Matrix Code	Matrix Type	Client Sample ID
M97347-1	01/19/11	00:00	01/22/11	AQ	Trip Blank Water	TB-ROX-011911
M97347-2	01/19/11	11:45	01/22/11	AQ	Ground Water	MW6A-ROX-011911
M97347-3	01/19/11	14:15	01/22/11	AQ	Ground Water	MW6B-ROX-011911
M97347-4	01/19/11	14:15	01/22/11	AQ	Ground Water	MW6B-ROX-011911DUP
M97347-5	01/19/11	08:05	01/22/11	AQ	Equipment Blank	MW6A-ROX-011911EB
M97347-6	01/20/11	09:00	01/22/11	AQ	Equipment Blank	MW6C-ROX-012011EB

ACCUTEST Laboratories

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	Shell Oil	**Job No**	M97347
Site:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL	**Report Date**	2/7/2011 10:56:22 AM

5 Sample(s), 1 Trip Blank were collected on between 01/19/2011 and 01/20/2011 and were received at Accutest on 01/22/2011 properly preserved, at 1.1 Deg. C and intact. These Samples received an Accutest job number of M97347. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix AQ **Batch ID:** MSE2170

- All samples were analyzed within the recommended method holding time.
- Sample(s) M97347-3MS, M97347-3MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Blank Spike Recovery(s) for Vinyl Acetate are outside control limits. Blank Spike meets program technical requirements.
- Matrix Spike Recovery(s) for Dichlorodifluoromethane, Vinyl Acetate are outside control limits. Outside control limits due to possible matrix interference. Refer to Blank Spike.
- Matrix Spike Duplicate Recovery(s) for Dichlorodifluoromethane, Hexachlorobutadiene, Isopropylbenzene, Vinyl Acetate are outside control limits. Outside control limits due to possible matrix interference. Refer to Blank Spike.
- BSD Recovery(s) for Dichlorodifluoromethane, Isopropylbenzene, Vinyl Acetate are outside control limits. Blank Spike meets program technical requirements.

Matrix AQ **Batch ID:** MSN1853

- All samples were analyzed within the recommended method holding time.
- Sample(s) M97323-5MS, M97323-5MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Blank Spike Recovery(s) for Chloroethane, Tetrachloroethene, Vinyl Acetate are outside control limits. Blank Spike meets program technical requirements.
- MS/MSD Recovery(s) for Ethylbenzene is outside control limits. Outside control limits due to high level in sample relative to spike amount.
- Matrix Spike Duplicate Recovery(s) for 2-Butanone (MEK), Acetone, Chloroethane, Styrene, Tetrachloroethene, Vinyl Acetate are outside control limits. Outside control limits due to possible matrix interference. Refer to Blank Spike.
- RPD of MSN1853-BSD for 2-Butanone (MEK): Outside control limits. Individual spike recoveries within acceptance limits.
- Matrix Spike Recovery(s) for 2-Butanone (MEK), Acetone, Styrene, Tetrachloroethene, Vinyl Acetate are outside control limits. Outside control limits due to possible matrix interference. Refer to Blank Spike.
- RPD of MSN1853-BSD for Acetone is outside control limits. Blank Spike meets program technical requirements.
- BSD Recovery(s) for Acetone, Chloroethane, Vinyl Acetate are outside control limits. Blank Spike meets program technical requirements.

Extractables by GCMS By Method SW846 8270C

Matrix AQ	Batch ID: OP23942

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M97378-1MS, M97378-1MSD were used as the QC samples indicated.
- Blank Spike Recovery(s) for Benzoic Acid are outside control limits. Blank Spike meets program technical requirements.
- Matrix Spike Recovery(s) for 4-Chloroaniline, Benzoic Acid are outside control limits. Outside control limits due to possible matrix interference. Refer to Blank Spike.
- Matrix Spike Duplicate Recovery(s) for Benzoic Acid are outside control limits. Outside control limits due to possible matrix interference. Refer to Blank Spike.
- Sample(s) M97347-2 through M97347-6 have compound(s) reported with a "B" qualifier, indicating analyte is found in the associated method blank.

The Accutest Laboratories of New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety.The Accutest Laboratories of NE, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report(M97347).

Extractables by GCMS By Method SW846 8270C

Matrix AQ	Batch ID: OP23942

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M97378-1MS, M97378-1MSD were used as the QC samples indicated.
- Blank Spike Recovery(s) for Benzoic Acid are outside control limits. Blank Spike meets program technical requirements.
- Matrix Spike Recovery(s) for 4-Chloroaniline, Benzoic Acid are outside control limits. Outside control limits due to possible matrix interference. Refer to Blank Spike.
- Matrix Spike Duplicate Recovery(s) for Benzoic Acid are outside control limits. Outside control limits due to possible matrix interference. Refer to Blank Spike.
- Sample(s) M97347-2 through M97347-6 have compound(s) reported with a "B" qualifier, indicating analyte is found in the associated method blank.

The Accutest Laboratories of New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety.The Accutest Laboratories of NE, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report(M97347).

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	TB-ROX-011911		
Lab Sample ID:	M97347-1	Date Sampled:	01/19/11
Matrix:	AQ - Trip Blank Water	Date Received:	01/22/11
Method:	SW846 8260B	Percent Solids:	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N49101.D	1	01/27/11	JP	n/a	n/a	MSN1853
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	4.6	ug/l	
71-43-2	Benzene	ND	0.50	0.35	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.52	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.91	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.62	ug/l	
75-25-2	Bromoform	ND	1.0	0.73	ug/l	
74-83-9	Bromomethane	ND	2.0	0.95	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.1	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.49	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.37	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.53	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.35	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.42	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.61	ug/l	
75-00-3	Chloroethane	ND	2.0	0.76	ug/l	
67-66-3	Chloroform	ND	1.0	0.72	ug/l	
74-87-3	Chloromethane	ND	2.0	0.81	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.58	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.67	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.3	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.86	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.74	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.77	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.81	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.61	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.63	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.74	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.70	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.66	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.74	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.83	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.73	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-ROX-011911		
Lab Sample ID:	M97347-1	Date Sampled:	01/19/11
Matrix:	AQ - Trip Blank Water	Date Received:	01/22/11
Method:	SW846 8260B	Percent Solids:	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
594-20-7	2,2-Dichloropropane	ND	5.0	0.44	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.34	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.23	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.61	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.56	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.51	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.45	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.54	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.94	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.75	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.43	ug/l	
100-42-5	Styrene	ND	5.0	0.68	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.64	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.89	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.39	ug/l	
108-88-3	Toluene	ND	1.0	0.74	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.57	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.35	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.72	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.49	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.47	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.61	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.62	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.51	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.51	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.86	ug/l	
	m,p-Xylene	ND	1.0	0.62	ug/l	
95-47-6	o-Xylene	ND	1.0	0.56	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	91%		70-130%
2037-26-5	Toluene-D8	102%		70-130%
460-00-4	4-Bromofluorobenzene	93%		70-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW6A-ROX-011911		
Lab Sample ID:	M97347-2	Date Sampled:	01/19/11
Matrix:	AQ - Ground Water	Date Received:	01/22/11
Method:	SW846 8260B	Percent Solids:	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N49102.D	1	01/27/11	JP	n/a	n/a	MSN1853
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	~~13.5~~ ND	~~5.0~~ 13.5	4.6	ug/l	"U"
71-43-2	Benzene	11.3	0.50	0.35	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.52	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.91	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.62	ug/l	
75-25-2	Bromoform	ND	1.0	0.73	ug/l	
74-83-9	Bromomethane	ND	2.0	0.95	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.1	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.49	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.37	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.53	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.35	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.42	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.61	ug/l	
75-00-3	Chloroethane	ND	2.0	0.76	ug/l	"UJ"
67-66-3	Chloroform	ND	1.0	0.72	ug/l	
74-87-3	Chloromethane	ND	2.0	0.81	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.58	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.67	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.3	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.86	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.74	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.77	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.81	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.61	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.63	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.74	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.70	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.66	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.74	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.83	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.73	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW6A-ROX-011911		
Lab Sample ID:	M97347-2	**Date Sampled:**	01/19/11
Matrix:	AQ - Ground Water	**Date Received:**	01/22/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
594-20-7	2,2-Dichloropropane	ND	5.0	0.44	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.34	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.23	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.61	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.56	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.51	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.45	ug/l	
1634-04-4	Methyl Tert Butyl Ether	18.1	1.0	0.54	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.94	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.75	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.43	ug/l	
100-42-5	Styrene	ND	5.0	0.68	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.64	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.89	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.39	ug/l	
108-88-3	Toluene	ND	1.0	0.74	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.57	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.35	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.72	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.49	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.47	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.61	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.62	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.51	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.51	ug/l	"UJ"
75-01-4	Vinyl chloride	ND	1.0	0.86	ug/l	
	m,p-Xylene	ND	1.0	0.62	ug/l	
95-47-6	o-Xylene	ND	1.0	0.56	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	88%		70-130%
2037-26-5	Toluene-D8	101%		70-130%
460-00-4	4-Bromofluorobenzene	95%		70-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW6A-ROX-011911		
Lab Sample ID:	M97347-2	Date Sampled:	01/19/11
Matrix:	AQ - Ground Water	Date Received:	01/22/11
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I70233.D	1	02/02/11	AA	01/25/11	OP23942	MSI2472
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	4.4	10	0.77	ug/l	"J"
95-57-8	2-Chlorophenol	ND	5.0	0.68	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.57	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.69	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	2.2	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	2.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	5.0	ug/l	
95-48-7	2-Methylphenol	ND	10	0.48	ug/l	
	3&4-Methylphenol	ND	10	0.63	ug/l	
88-75-5	2-Nitrophenol	ND	10	0.66	ug/l	
100-02-7	4-Nitrophenol	ND	20	5.0	ug/l	
87-86-5	Pentachlorophenol	ND	10	3.3	ug/l	
108-95-2	Phenol	ND	5.0	2.1	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.40	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.38	ug/l	
83-32-9	Acenaphthene	ND	5.0	0.34	ug/l	
208-96-8	Acenaphthylene	ND	5.0	1.3	ug/l	
62-53-3	Aniline	ND	10	0.46	ug/l	
120-12-7	Anthracene	ND	5.0	0.27	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	0.27	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	0.23	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	0.27	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	0.61	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	0.29	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	0.32	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	0.41	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.31	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.58	ug/l	
218-01-9	Chrysene	ND	5.0	0.22	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	0.35	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	0.23	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	0.21	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW6A-ROX-011911		
Lab Sample ID:	M97347-2	Date Sampled:	01/19/11
Matrix:	AQ - Ground Water	Date Received:	01/22/11
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

ABN PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	0.61	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	1.3	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.34	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	2.5	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	0.25	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.32	ug/l	
84-74-2	Di-n-butyl phthalate	0.81	5.0	0.34	ug/l	J
117-84-0	Di-n-octyl phthalate	ND	5.0	0.34	ug/l	
84-66-2	Diethyl phthalate	~~1.90~~ ND	5.0	0.61	ug/l	~~JB~~ "U"
131-11-3	Dimethyl phthalate	ND	5.0	1.3	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.49	ug/l	
206-44-0	Fluoranthene	ND	5.0	0.22	ug/l	
86-73-7	Fluorene	ND	5.0	0.29	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	0.16	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	2.5	ug/l	
67-72-1	Hexachloroethane	ND	5.0	0.43	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	0.29	ug/l	
78-59-1	Isophorone	ND	5.0	0.47	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	0.31	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.33	ug/l	
99-09-2	3-Nitroaniline	ND	10	0.32	ug/l	
100-01-6	4-Nitroaniline	ND	10	0.33	ug/l	
91-20-3	Naphthalene	ND	5.0	0.33	ug/l	
98-95-3	Nitrobenzene	ND	5.0	0.31	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	0.41	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.61	ug/l	
85-01-8	Phenanthrene	ND	5.0	0.26	ug/l	
129-00-0	Pyrene	ND	5.0	0.25	ug/l	
110-86-1	Pyridine	ND	10	0.50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	37%		15-110%
4165-62-2	Phenol-d5	23%		15-110%
118-79-6	2,4,6-Tribromophenol	69%		15-110%
4165-60-0	Nitrobenzene-d5	68%		30-130%
321-60-8	2-Fluorobiphenyl	70%		30-130%
1718-51-0	Terphenyl-d14	75%		30-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW6B-ROX-011911		
Lab Sample ID:	M97347-3	Date Sampled:	01/19/11
Matrix:	AQ - Ground Water	Date Received:	01/22/11
Method:	SW846 8260B	Percent Solids:	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E51401.D	1	01/31/11	TD	n/a	n/a	MSE2170
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	4.6	ug/l	
71-43-2	Benzene	8.2	0.50	0.35	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.52	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.91	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.62	ug/l	
75-25-2	Bromoform	ND	1.0	0.73	ug/l	
74-83-9	Bromomethane	ND	2.0	0.95	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.1	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.49	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.37	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.53	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.35	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.42	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.61	ug/l	
75-00-3	Chloroethane	ND	2.0	0.76	ug/l	
67-66-3	Chloroform	ND	1.0	0.72	ug/l	
74-87-3	Chloromethane	ND	2.0	0.81	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.58	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.67	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.3	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.86	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.74	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.77	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.81	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.61	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.63	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.74	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.70	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.66	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.74	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.83	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.73	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW6B-ROX-011911		
Lab Sample ID:	M97347-3	Date Sampled:	01/19/11
Matrix:	AQ - Ground Water	Date Received:	01/22/11
Method:	SW846 8260B	Percent Solids:	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
594-20-7	2,2-Dichloropropane	ND	5.0	0.44	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.34	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.23	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.61	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.56	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.51	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.45	ug/l	
1634-04-4	Methyl Tert Butyl Ether	1.6	1.0	0.54	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.94	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.75	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.43	ug/l	
100-42-5	Styrene	ND	5.0	0.68	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.64	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.89	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.39	ug/l	
108-88-3	Toluene	ND	1.0	0.74	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.57	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.35	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.72	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.49	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.47	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.61	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.62	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.51	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.51	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.86	ug/l	
	m,p-Xylene	ND	1.0	0.62	ug/l	
95-47-6	o-Xylene	ND	1.0	0.56	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	114%		70-130%
2037-26-5	Toluene-D8	118%		70-130%
460-00-4	4-Bromofluorobenzene	112%		70-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW6B-ROX-011911		
Lab Sample ID:	M97347-3	Date Sampled:	01/19/11
Matrix:	AQ - Ground Water	Date Received:	01/22/11
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I70234.D	1	02/02/11	AA	01/25/11	OP23942	MSI2472
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	10	0.77	ug/l	"UJ"
95-57-8	2-Chlorophenol	ND	5.0	0.68	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.57	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.69	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	2.2	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	2.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	5.0	ug/l	
95-48-7	2-Methylphenol	ND	10	0.48	ug/l	
	3&4-Methylphenol	ND	10	0.63	ug/l	
88-75-5	2-Nitrophenol	ND	10	0.66	ug/l	
100-02-7	4-Nitrophenol	ND	20	5.0	ug/l	
87-86-5	Pentachlorophenol	ND	10	3.3	ug/l	
108-95-2	Phenol	ND	5.0	2.1	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.40	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.38	ug/l	
83-32-9	Acenaphthene	ND	5.0	0.34	ug/l	
208-96-8	Acenaphthylene	ND	5.0	1.3	ug/l	
62-53-3	Aniline	ND	10	0.46	ug/l	
120-12-7	Anthracene	ND	5.0	0.27	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	0.27	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	0.23	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	0.27	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	0.61	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	0.29	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	0.32	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	0.41	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.31	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.58	ug/l	
218-01-9	Chrysene	ND	5.0	0.22	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	0.35	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	0.23	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	0.21	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW6B-ROX-011911		
Lab Sample ID:	M97347-3	Date Sampled:	01/19/11
Matrix:	AQ - Ground Water	Date Received:	01/22/11
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

ABN PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	0.61	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	1.3	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.34	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	2.5	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	0.25	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.32	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	0.34	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	0.34	ug/l	
84-66-2	Diethyl phthalate	~~0.870.0~~ ND	5.0	0.61	ug/l	~~JB~~ "U"
131-11-3	Dimethyl phthalate	ND	5.0	1.3	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.49	ug/l	
206-44-0	Fluoranthene	ND	5.0	0.22	ug/l	
86-73-7	Fluorene	ND	5.0	0.29	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	0.16	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	2.5	ug/l	
67-72-1	Hexachloroethane	ND	5.0	0.43	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	0.29	ug/l	
78-59-1	Isophorone	ND	5.0	0.47	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	0.31	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.33	ug/l	
99-09-2	3-Nitroaniline	ND	10	0.32	ug/l	
100-01-6	4-Nitroaniline	ND	10	0.33	ug/l	
91-20-3	Naphthalene	ND	5.0	0.33	ug/l	
98-95-3	Nitrobenzene	ND	5.0	0.31	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	0.41	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.61	ug/l	
85-01-8	Phenanthrene	ND	5.0	0.26	ug/l	
129-00-0	Pyrene	ND	5.0	0.25	ug/l	
110-86-1	Pyridine	ND	10	0.50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	40%		15-110%
4165-62-2	Phenol-d5	24%		15-110%
118-79-6	2,4,6-Tribromophenol	73%		15-110%
4165-60-0	Nitrobenzene-d5	72%		30-130%
321-60-8	2-Fluorobiphenyl	75%		30-130%
1718-51-0	Terphenyl-d14	85%		30-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW6B-ROX-011911DUP		
Lab Sample ID:	M97347-4	**Date Sampled:**	01/19/11
Matrix:	AQ - Ground Water	**Date Received:**	01/22/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E51404.D	1	01/31/11	TD	n/a	n/a	MSE2170
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	4.6	ug/l	
71-43-2	Benzene	8.2	0.50	0.35	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.52	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.91	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.62	ug/l	
75-25-2	Bromoform	ND	1.0	0.73	ug/l	
74-83-9	Bromomethane	ND	2.0	0.95	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.1	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.49	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.37	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.53	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.35	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.42	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.61	ug/l	
75-00-3	Chloroethane	ND	2.0	0.76	ug/l	
67-66-3	Chloroform	ND	1.0	0.72	ug/l	
74-87-3	Chloromethane	ND	2.0	0.81	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.58	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.67	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.3	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.86	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.74	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.77	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.81	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.61	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.63	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.74	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.70	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.66	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.74	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.83	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.73	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW6B-ROX-011911DUP		
Lab Sample ID:	M97347-4	Date Sampled:	01/19/11
Matrix:	AQ - Ground Water	Date Received:	01/22/11
Method:	SW846 8260B	Percent Solids:	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
594-20-7	2,2-Dichloropropane	ND	5.0	0.44	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.34	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.23	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.61	ug/l	
87-68-3	Hexachlorobutadiene	1.4	5.0	0.56	ug/l	J
98-82-8	Isopropylbenzene	ND	5.0	0.51	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.45	ug/l	
1634-04-4	Methyl Tert Butyl Ether	1.6	1.0	0.54	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.94	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.75	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.43	ug/l	
100-42-5	Styrene	ND	5.0	0.68	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.64	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.89	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.39	ug/l	
108-88-3	Toluene	ND	1.0	0.74	ug/l	
87-61-6	1,2,3-Trichlorobenzene	1.6	5.0	1.0	ug/l	J
120-82-1	1,2,4-Trichlorobenzene	1.1	5.0	0.57	ug/l	J
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.35	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.72	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.49	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.47	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.61	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.62	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.51	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.51	ug/l	"ل"
75-01-4	Vinyl chloride	ND	1.0	0.86	ug/l	
	m,p-Xylene	ND	1.0	0.62	ug/l	
95-47-6	o-Xylene	ND	1.0	0.56	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	111%		70-130%
2037-26-5	Toluene-D8	115%		70-130%
460-00-4	4-Bromofluorobenzene	110%		70-130%

ND = Not detected MDL - Method Detection Limit
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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW6B-ROX-011911DUP		
Lab Sample ID:	M97347-4	Date Sampled:	01/19/11
Matrix:	AQ - Ground Water	Date Received:	01/22/11
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S21215.D	1	02/02/11	PR	01/25/11	OP23942	MSS888
Run #2							

	Initial Volume	Final Volume
Run #1	980 ml	1.0 ml
Run #2		

ABN PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	10	0.79	ug/l	"UJ"
95-57-8	2-Chlorophenol	ND	5.1	0.70	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.58	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.71	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	2.2	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	2.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	5.1	ug/l	
95-48-7	2-Methylphenol	ND	10	0.49	ug/l	
	3&4-Methylphenol	ND	10	0.64	ug/l	
88-75-5	2-Nitrophenol	ND	10	0.67	ug/l	
100-02-7	4-Nitrophenol	ND	20	5.1	ug/l	
87-86-5	Pentachlorophenol	ND	10	3.4	ug/l	
108-95-2	Phenol	ND	5.1	2.1	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.41	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.38	ug/l	
83-32-9	Acenaphthene	ND	5.1	0.34	ug/l	
208-96-8	Acenaphthylene	ND	5.1	1.3	ug/l	
62-53-3	Aniline	ND	10	0.46	ug/l	
120-12-7	Anthracene	ND	5.1	0.28	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.1	0.28	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.1	0.23	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.1	0.28	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.1	0.62	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.1	0.30	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.1	0.33	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.1	0.42	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.1	0.31	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.59	ug/l	
218-01-9	Chrysene	ND	5.1	0.23	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.1	0.36	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.1	0.24	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.1	0.21	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW6B-ROX-011911DUP		
Lab Sample ID:	M97347-4	Date Sampled:	01/19/11
Matrix:	AQ - Ground Water	Date Received:	01/22/11
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

ABN PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.1	0.62	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	1.3	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.34	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.1	2.6	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.1	0.25	ug/l	
132-64-9	Dibenzofuran	ND	5.1	0.32	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.1	0.34	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.1	0.34	ug/l	
84-66-2	Diethyl phthalate	~~1.0~~ ND	5.1	0.62	ug/l	~~JB~~ "U"
131-11-3	Dimethyl phthalate	ND	5.1	1.3	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.50	ug/l	
206-44-0	Fluoranthene	ND	5.1	0.22	ug/l	
86-73-7	Fluorene	ND	5.1	0.30	ug/l	
118-74-1	Hexachlorobenzene	ND	5.1	0.16	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	2.6	ug/l	
67-72-1	Hexachloroethane	ND	5.1	0.44	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.1	0.29	ug/l	
78-59-1	Isophorone	ND	5.1	0.48	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.1	0.31	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.34	ug/l	
99-09-2	3-Nitroaniline	ND	10	0.33	ug/l	
100-01-6	4-Nitroaniline	ND	10	0.34	ug/l	
91-20-3	Naphthalene	ND	5.1	0.33	ug/l	
98-95-3	Nitrobenzene	ND	5.1	0.31	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.1	0.41	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.1	0.62	ug/l	
85-01-8	Phenanthrene	ND	5.1	0.26	ug/l	
129-00-0	Pyrene	ND	5.1	0.25	ug/l	
110-86-1	Pyridine	ND	10	0.51	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	38%		15-110%
4165-62-2	Phenol-d5	23%		15-110%
118-79-6	2,4,6-Tribromophenol	87%		15-110%
4165-60-0	Nitrobenzene-d5	72%		30-130%
321-60-8	2-Fluorobiphenyl	74%		30-130%
1718-51-0	Terphenyl-d14	77%		30-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW6A-ROX-011911EB		
Lab Sample ID:	M97347-5	Date Sampled:	01/19/11
Matrix:	AQ - Equipment Blank	Date Received:	01/22/11
Method:	SW846 8260B	Percent Solids:	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E51398.D	1	01/31/11	TD	n/a	n/a	MSE2170
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	4.6	ug/l	
71-43-2	Benzene	ND	0.50	0.35	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.52	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.91	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.62	ug/l	
75-25-2	Bromoform	ND	1.0	0.73	ug/l	
74-83-9	Bromomethane	ND	2.0	0.95	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.1	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.49	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.37	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.53	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.35	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.42	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.61	ug/l	
75-00-3	Chloroethane	ND	2.0	0.76	ug/l	
67-66-3	Chloroform	ND	1.0	0.72	ug/l	
74-87-3	Chloromethane	ND	2.0	0.81	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.58	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.67	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.3	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.86	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.74	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.77	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.81	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.61	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.63	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.74	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.70	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.66	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.74	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.83	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.73	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW6A-ROX-011911EB		
Lab Sample ID:	M97347-5	Date Sampled:	01/19/11
Matrix:	AQ - Equipment Blank	Date Received:	01/22/11
Method:	SW846 8260B	Percent Solids:	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
594-20-7	2,2-Dichloropropane	ND	5.0	0.44	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.34	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.23	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.61	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.56	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.51	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.45	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.54	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.94	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.75	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.43	ug/l	
100-42-5	Styrene	ND	5.0	0.68	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.64	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.89	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.39	ug/l	
108-88-3	Toluene	ND	1.0	0.74	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.57	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.35	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.72	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.49	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.47	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.61	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.62	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.51	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.51	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.86	ug/l	
	m,p-Xylene	ND	1.0	0.62	ug/l	
95-47-6	o-Xylene	ND	1.0	0.56	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	113%		70-130%
2037-26-5	Toluene-D8	116%		70-130%
460-00-4	4-Bromofluorobenzene	111%		70-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW6A-ROX-011911EB		
Lab Sample ID:	M97347-5	Date Sampled:	01/19/11
Matrix:	AQ - Equipment Blank	Date Received:	01/22/11
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S21216.D	1	02/02/11	PR	01/25/11	OP23942	MSS888
Run #2							

	Initial Volume	Final Volume
Run #1	990 ml	1.0 ml
Run #2		

ABN PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	10	0.78	ug/l	
95-57-8	2-Chlorophenol	ND	5.1	0.69	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.58	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.70	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	2.2	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	2.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	5.1	ug/l	
95-48-7	2-Methylphenol	ND	10	0.48	ug/l	
	3&4-Methylphenol	ND	10	0.64	ug/l	
88-75-5	2-Nitrophenol	ND	10	0.66	ug/l	
100-02-7	4-Nitrophenol	ND	20	5.1	ug/l	
87-86-5	Pentachlorophenol	ND	10	3.3	ug/l	
108-95-2	Phenol	ND	5.1	2.1	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.41	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.38	ug/l	
83-32-9	Acenaphthene	ND	5.1	0.34	ug/l	
208-96-8	Acenaphthylene	ND	5.1	1.3	ug/l	
62-53-3	Aniline	ND	10	0.46	ug/l	
120-12-7	Anthracene	ND	5.1	0.27	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.1	0.27	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.1	0.23	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.1	0.27	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.1	0.62	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.1	0.30	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.1	0.32	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.1	0.41	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.1	0.31	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.58	ug/l	
218-01-9	Chrysene	ND	5.1	0.23	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.1	0.35	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.1	0.24	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.1	0.21	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW6A-ROX-011911EB		
Lab Sample ID:	M97347-5	Date Sampled:	01/19/11
Matrix:	AQ - Equipment Blank	Date Received:	01/22/11
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

ABN PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.1	0.62	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	1.3	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.34	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.1	2.5	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.1	0.25	ug/l	
132-64-9	Dibenzofuran	ND	5.1	0.32	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.1	0.34	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.1	0.34	ug/l	
84-66-2	Diethyl phthalate	0.67	5.1	0.62	ug/l	JB
131-11-3	Dimethyl phthalate	ND	5.1	1.3	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.49	ug/l	
206-44-0	Fluoranthene	ND	5.1	0.22	ug/l	
86-73-7	Fluorene	ND	5.1	0.29	ug/l	
118-74-1	Hexachlorobenzene	ND	5.1	0.16	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	2.5	ug/l	
67-72-1	Hexachloroethane	ND	5.1	0.43	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.1	0.29	ug/l	
78-59-1	Isophorone	ND	5.1	0.48	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.1	0.31	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.34	ug/l	
99-09-2	3-Nitroaniline	ND	10	0.33	ug/l	
100-01-6	4-Nitroaniline	ND	10	0.34	ug/l	
91-20-3	Naphthalene	ND	5.1	0.33	ug/l	
98-95-3	Nitrobenzene	ND	5.1	0.31	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.1	0.41	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.1	0.62	ug/l	
85-01-8	Phenanthrene	ND	5.1	0.26	ug/l	
129-00-0	Pyrene	ND	5.1	0.25	ug/l	
110-86-1	Pyridine	ND	10	0.51	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	38%		15-110%
4165-62-2	Phenol-d5	23%		15-110%
118-79-6	2,4,6-Tribromophenol	87%		15-110%
4165-60-0	Nitrobenzene-d5	78%		30-130%
321-60-8	2-Fluorobiphenyl	78%		30-130%
1718-51-0	Terphenyl-d14	85%		30-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW6C-ROX-012011EB		
Lab Sample ID:	M97347-6	**Date Sampled:**	01/20/11
Matrix:	AQ - Equipment Blank	**Date Received:**	01/22/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E51399.D	1	01/31/11	TD	n/a	n/a	MSE2170
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	4.6	ug/l	
71-43-2	Benzene	ND	0.50	0.35	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.52	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.91	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.62	ug/l	
75-25-2	Bromoform	ND	1.0	0.73	ug/l	
74-83-9	Bromomethane	ND	2.0	0.95	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.1	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.49	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.37	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.53	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.35	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.42	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.61	ug/l	
75-00-3	Chloroethane	ND	2.0	0.76	ug/l	
67-66-3	Chloroform	ND	1.0	0.72	ug/l	
74-87-3	Chloromethane	ND	2.0	0.81	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.58	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.67	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.3	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.86	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.74	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.77	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.81	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.61	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.63	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.74	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.70	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.66	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.74	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.83	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.73	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW6C-ROX-012011EB		
Lab Sample ID:	M97347-6	Date Sampled:	01/20/11
Matrix:	AQ - Equipment Blank	Date Received:	01/22/11
Method:	SW846 8260B	Percent Solids:	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
594-20-7	2,2-Dichloropropane	ND	5.0	0.44	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.34	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.23	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.61	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.56	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.51	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.45	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.54	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.94	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.75	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.43	ug/l	
100-42-5	Styrene	ND	5.0	0.68	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.64	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.89	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.39	ug/l	
108-88-3	Toluene	ND	1.0	0.74	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.57	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.35	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.72	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.49	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.47	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.61	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.62	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.51	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.51	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.86	ug/l	
	m,p-Xylene	ND	1.0	0.62	ug/l	
95-47-6	o-Xylene	ND	1.0	0.56	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%		70-130%
2037-26-5	Toluene-D8	116%		70-130%
460-00-4	4-Bromofluorobenzene	109%		70-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW6C-ROX-012011EB		
Lab Sample ID:	M97347-6	Date Sampled:	01/20/11
Matrix:	AQ - Equipment Blank	Date Received:	01/22/11
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S21217.D	1	02/02/11	PR	01/25/11	OP23942	MSS888
Run #2							

	Initial Volume	Final Volume
Run #1	990 ml	1.0 ml
Run #2		

ABN PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	10	0.78	ug/l	
95-57-8	2-Chlorophenol	ND	5.1	0.69	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.58	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.70	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	2.2	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	2.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	5.1	ug/l	
95-48-7	2-Methylphenol	ND	10	0.48	ug/l	
	3&4-Methylphenol	ND	10	0.64	ug/l	
88-75-5	2-Nitrophenol	ND	10	0.66	ug/l	
100-02-7	4-Nitrophenol	ND	20	5.1	ug/l	
87-86-5	Pentachlorophenol	ND	10	3.3	ug/l	
108-95-2	Phenol	ND	5.1	2.1	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.41	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.38	ug/l	
83-32-9	Acenaphthene	ND	5.1	0.34	ug/l	
208-96-8	Acenaphthylene	ND	5.1	1.3	ug/l	
62-53-3	Aniline	ND	10	0.46	ug/l	
120-12-7	Anthracene	ND	5.1	0.27	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.1	0.27	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.1	0.23	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.1	0.27	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.1	0.62	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.1	0.30	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.1	0.32	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.1	0.41	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.1	0.31	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.58	ug/l	
218-01-9	Chrysene	ND	5.1	0.23	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.1	0.35	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.1	0.24	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.1	0.21	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW6C-ROX-012011EB		
Lab Sample ID:	M97347-6	Date Sampled:	01/20/11
Matrix:	AQ - Equipment Blank	Date Received:	01/22/11
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

ABN PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.1	0.62	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	1.3	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.34	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.1	2.5	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.1	0.25	ug/l	
132-64-9	Dibenzofuran	ND	5.1	0.32	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.1	0.34	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.1	0.34	ug/l	
84-66-2	Diethyl phthalate	0.99	5.1	0.62	ug/l	JB
131-11-3	Dimethyl phthalate	ND	5.1	1.3	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.49	ug/l	
206-44-0	Fluoranthene	ND	5.1	0.22	ug/l	
86-73-7	Fluorene	ND	5.1	0.29	ug/l	
118-74-1	Hexachlorobenzene	ND	5.1	0.16	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	2.5	ug/l	
67-72-1	Hexachloroethane	ND	5.1	0.43	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.1	0.29	ug/l	
78-59-1	Isophorone	ND	5.1	0.48	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.1	0.31	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.34	ug/l	
99-09-2	3-Nitroaniline	ND	10	0.33	ug/l	
100-01-6	4-Nitroaniline	ND	10	0.34	ug/l	
91-20-3	Naphthalene	ND	5.1	0.33	ug/l	
98-95-3	Nitrobenzene	ND	5.1	0.31	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.1	0.41	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.1	0.62	ug/l	
85-01-8	Phenanthrene	ND	5.1	0.26	ug/l	
129-00-0	Pyrene	ND	5.1	0.25	ug/l	
110-86-1	Pyridine	ND	10	0.51	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	38%		15-110%
4165-62-2	Phenol-d5	22%		15-110%
118-79-6	2,4,6-Tribromophenol	84%		15-110%
4165-60-0	Nitrobenzene-d5	75%		30-130%
321-60-8	2-Fluorobiphenyl	77%		30-130%
1718-51-0	Terphenyl-d14	84%		30-130%

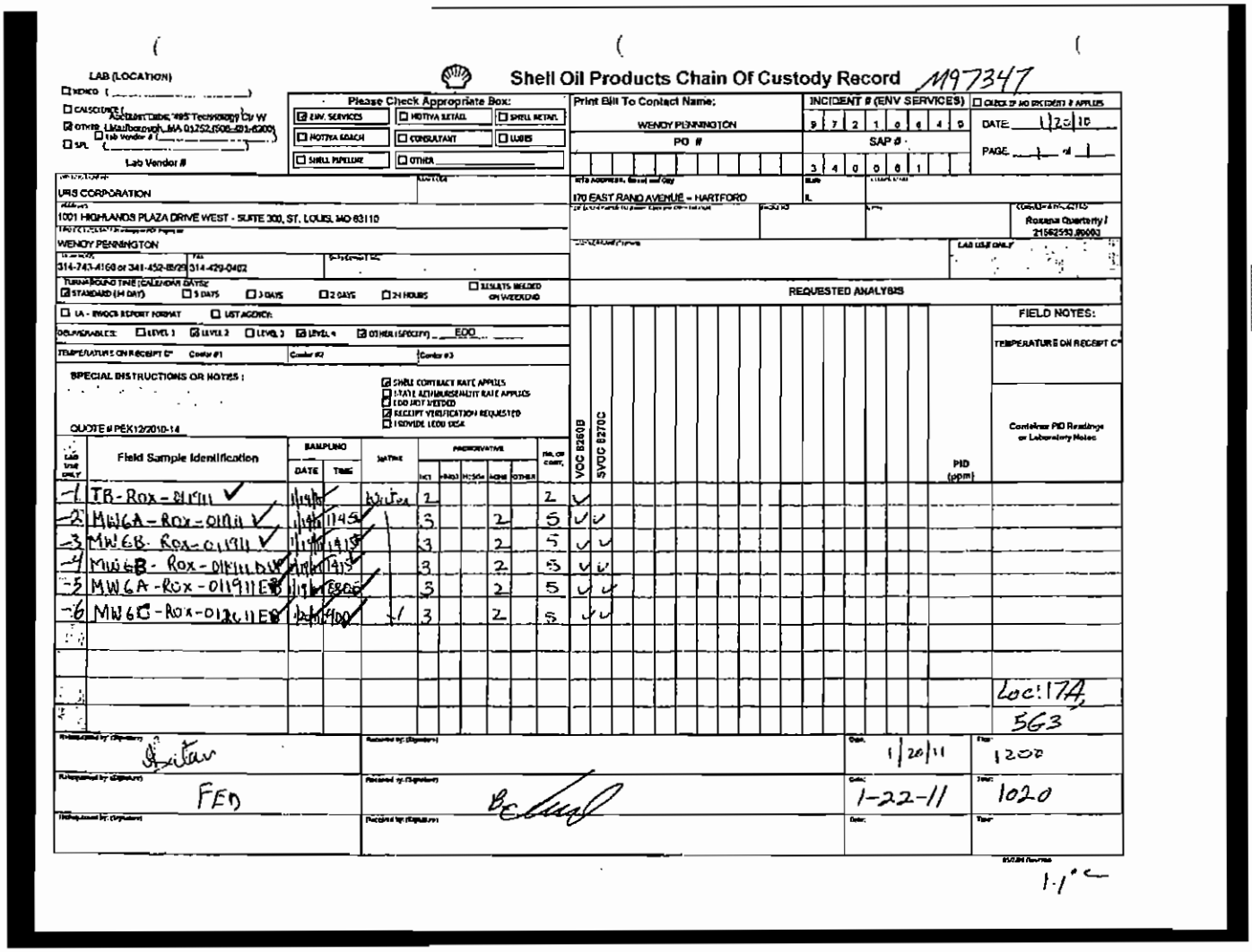
ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Certification Exceptions (IL)
- Chain of Custody
- Sample Tracking Chronicle
- Internal Chain of Custody



Shell Oil Products Chain Of Custody Record M97347

LAB (LOCATION)
☐ KENCO ( )
☐ CALSCIENCE ( )
☑ OTHER Accutest Labs, 495 Technology Ctr W Lilleyborough, MA 01752 (508-481-6200)
☐ SPL ( )
Lab Vendor #

Please Check Appropriate Box:
☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA REGION ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name: WENDY PENNINGTON
PO #
INCIDENT # (ENV SERVICES): 97210944
SAP #: 340081
☐ CHECK IF NO INCIDENT # APPLIES
DATE: 1/20/10
PAGE: 1 of 1

URS CORPORATION
1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300, ST. LOUIS, MO 63110
WENDY PENNINGTON
314-743-4160 or 341-452-8929 | 314-429-0402
TURNAROUND TIME (CALENDAR DAYS): ☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND
☐ EDF - ENVOS REPORT FORMAT ☐ UST AGENCY:
DELIVERABLES: ☐ LEVEL 1 ☑ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☑ OTHER (SPECIFY) EDD
TEMPERATURE ON RECEIPT C°: Cooler #1 | Cooler #2 | Cooler #3

SPECIAL INSTRUCTIONS OR NOTES:
QUOTE # PEK12/2010-14
☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED
☐ PROVIDE EDD DISK

170 EAST RAND AVENUE – HARTFORD
IL
Consultant Project Contact: Roxana Quarterly / 21562593.09003
LAB USE ONLY

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCl	H2SO4	HNO3	NONE	OTHER	NO. OF CONT.	VOC 8260B	SVOC 8270C	PID (ppm)
-1	TB-ROX-011911 ✓	1/19/11		WATER	2				2	2	✓		
-2	MW6A-ROX-011911 ✓	1/19/11	1145		3			2		5	✓	✓	
-3	MW6B-ROX-011911 ✓	1/19/11	1415		3			2		5	✓	✓	
-4	MW6B-ROX-011911 DUP	1/19/11	1415		3			2		5	✓	✓	
-5	MW6A-ROX-011911EB	1/19/11	1500		3			2		5	✓	✓	
-6	MW6B-ROX-012011EB	1/20/11	1100	✓	3			2		5	✓	✓	

FIELD NOTES:
TEMPERATURE ON RECEIPT C°
Container PID Readings or Laboratory Notes
Loc: 174, 563

Relinquished by: (Signature)	Received by: (Signature)	Date	Time
		1/20/11	1200
FED		1-22-11	1020

1.1°C

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M97347: Chain of Custody
Page 1 of 2

ACCUTEST LABORATORIES

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: M97347 Client: URS Immediate Client Services Action Required: No

Date / Time Received: 1/22/2011 Delivery Method: Client Service Action Required at Login: No

Project: No. Coolers: 1 Airbill #'s:

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	Infared gun		
3. Cooler media:	Ice (bag)		

Quality Control Preservatio	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☐	☑
2. Trip Blank listed on COC:	☐		☐	☑
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

Accutest Laboratories
V:508.481.6200

495 Technology Center West, Bldg One
F: 508.481.7753

Marlborough, MA
www.accutest.com

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M97347: Chain of Custody
Page 2 of 2

Internal Sample Tracking Chronicle

Shell Oil

Job No: M97347

URSMOSTL:97216640 170 East Rand Avenue Hartford, IL
Project No: SAP#340061

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
M97347-1	Collected: 19-JAN-11 00:00 By:		Received: 22-JAN-11 By: BC			
TB-ROX-011911						
M97347-1	SW846 8260B	27-JAN-11 19:12	JP			V8260STD
M97347-2	Collected: 19-JAN-11 11:45 By:		Received: 22-JAN-11 By: BC			
MW6A-ROX-011911						
M97347-2	SW846 8260B	27-JAN-11 19:40	JP			V8260STD
M97347-2	SW846 8270C	02-FEB-11 21:29	AA	25-JAN-11	BJ	AB8270PPL
M97347-3	Collected: 19-JAN-11 14:15 By:		Received: 22-JAN-11 By: BC			
MW6B-ROX-011911						
M97347-3	SW846 8260B	31-JAN-11 15:19	TD			V8260STD
M97347-3	SW846 8270C	02-FEB-11 22:00	AA	25-JAN-11	BJ	AB8270PPL
M97347-4	Collected: 19-JAN-11 14:15 By:		Received: 22-JAN-11 By: BC			
MW6B-ROX-011911DUP						
M97347-4	SW846 8260B	31-JAN-11 16:40	TD			V8260STD
M97347-4	SW846 8270C	02-FEB-11 13:48	PR	25-JAN-11	BJ	AB8270PPL
M97347-5	Collected: 19-JAN-11 08:05 By:		Received: 22-JAN-11 By: BC			
MW6A-ROX-011911EB						
M97347-5	SW846 8260B	31-JAN-11 13:52	TD			V8260STD
M97347-5	SW846 8270C	02-FEB-11 14:15	PR	25-JAN-11	BJ	AB8270PPL
M97347-6	Collected: 20-JAN-11 09:00 By:		Received: 22-JAN-11 By: BC			
MW6C-ROX-012011EB						
M97347-6	SW846 8260B	31-JAN-11 14:21	TD			V8260STD
M97347-6	SW846 8270C	02-FEB-11 14:42	PR	25-JAN-11	BJ	AB8270PPL

Accutest Internal Chain of Custody

Job Number: M97347
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL
Received: 01/22/11

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Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
M97347-1.1	VOC Ref #5	Jugal Patel	01/27/11 14:35	Retrieve from Storage
M97347-1.1	Jugal Patel	GCMSN	01/27/11 14:35	Load on Instrument
M97347-1.1	GCMSN	Jugal Patel	01/28/11 10:23	Unload from Instrument
M97347-1.1	Jugal Patel	VOC Ref #5	01/28/11 10:23	Return to Storage
M97347-2.1	VOC Ref #5	Jugal Patel	01/27/11 14:35	Retrieve from Storage
M97347-2.1	Jugal Patel	GCMSN	01/27/11 14:35	Load on Instrument
M97347-2.1	GCMSN	Jugal Patel	01/28/11 10:23	Unload from Instrument
M97347-2.1	Jugal Patel	VOC Ref #5	01/28/11 10:23	Return to Storage
M97347-2.5	Walk In Ref #22	Michael Widuta	01/25/11 07:34	Retrieve from Storage
M97347-2.5	Michael Widuta		01/25/11 14:02	Depleted
M97347-3.2	VOC Ref #5	Tamis Dudo	01/31/11 12:45	Retrieve from Storage
M97347-3.2	Tamis Dudo	GCMSE	01/31/11 12:45	Load on Instrument
M97347-3.2	GCMSE	Tamis Dudo	02/01/11 09:30	Unload from Instrument
M97347-3.2	Tamis Dudo	VOC Ref #5	02/02/11 15:51	Return to Storage
M97347-3.3	VOC Ref #5	Tamis Dudo	01/31/11 12:45	Retrieve from Storage
M97347-3.3	Tamis Dudo	GCMSE	01/31/11 12:45	Load on Instrument
M97347-3.3	GCMSE	Tamis Dudo	02/01/11 09:30	Unload from Instrument
M97347-3.3	Tamis Dudo	VOC Ref #5	02/02/11 15:51	Return to Storage
M97347-3.5	Walk In Ref #22	Michael Widuta	01/25/11 07:34	Retrieve from Storage
M97347-3.5	Michael Widuta		01/25/11 14:02	Depleted
M97347-4.3	VOC Ref #5	Tamis Dudo	01/31/11 12:45	Retrieve from Storage
M97347-4.3	Tamis Dudo	GCMSE	01/31/11 12:45	Load on Instrument
M97347-4.3	GCMSE	Tamis Dudo	02/01/11 09:30	Unload from Instrument
M97347-4.3	Tamis Dudo	VOC Ref #5	02/02/11 15:51	Return to Storage
M97347-4.4	Walk In Ref #22	Michael Widuta	01/25/11 07:34	Retrieve from Storage
M97347-4.4	Michael Widuta		01/25/11 14:02	Depleted
M97347-5.1	VOC Ref #5	Tamis Dudo	01/31/11 12:45	Retrieve from Storage
M97347-5.1	Tamis Dudo	GCMSE	01/31/11 12:45	Load on Instrument
M97347-5.1	GCMSE	Tamis Dudo	02/01/11 09:30	Unload from Instrument
M97347-5.1	Tamis Dudo	VOC Ref #5	02/02/11 15:51	Return to Storage
M97347-5.5	Walk In Ref #22	Michael Widuta	01/25/11 07:34	Retrieve from Storage
M97347-5.5	Michael Widuta		01/25/11 14:02	Depleted
M97347-6.3	VOC Ref #5	Tamis Dudo	01/31/11 12:45	Retrieve from Storage
M97347-6.3	Tamis Dudo	GCMSE	01/31/11 12:45	Load on Instrument

Accutest Internal Chain of Custody

Job Number: M97347
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL
Received: 01/22/11

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Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
M97347-6.3	GCMSE	Tamis Dudo	02/01/11 09:30	Unload from Instrument
M97347-6.3	Tamis Dudo	VOC Ref #5	02/02/11 15:51	Return to Storage
M97347-6.5	Walk In Ref #22	Michael Widuta	01/25/11 07:34	Retrieve from Storage
M97347-6.5	Michael Widuta		01/25/11 14:02	Depleted

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: M97347
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSN1853-MB	N49091.D	1	01/27/11	JP	n/a	n/a	MSN1853

The QC reported here applies to the following samples: Method: SW846 8260B

M97347-1, M97347-2

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	4.6	ug/l	
71-43-2	Benzene	ND	0.50	0.35	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.52	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.91	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.62	ug/l	
75-25-2	Bromoform	ND	1.0	0.73	ug/l	
74-83-9	Bromomethane	ND	2.0	0.95	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.1	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.49	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.37	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.53	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.35	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.42	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.61	ug/l	
75-00-3	Chloroethane	ND	2.0	0.76	ug/l	
67-66-3	Chloroform	ND	1.0	0.72	ug/l	
74-87-3	Chloromethane	ND	2.0	0.81	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.58	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.67	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.3	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.86	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.74	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.77	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.81	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.61	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.63	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.74	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.70	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.66	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.74	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.83	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.73	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.44	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.34	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.23	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.23	ug/l	

Method Blank Summary

Job Number: M97347
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSN1853-MB	N49091.D	1	01/27/11	JP	n/a	n/a	MSN1853

The QC reported here applies to the following samples: Method: SW846 8260B

M97347-1, M97347-2

CAS No.	Compound	Result	RL	MDL	Units	Q
100-41-4	Ethylbenzene	ND	1.0	0.61	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.56	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.51	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.45	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.54	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.94	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.75	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.43	ug/l	
100-42-5	Styrene	ND	5.0	0.68	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.64	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.89	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.39	ug/l	
108-88-3	Toluene	ND	1.0	0.74	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.57	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.35	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.72	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.49	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.47	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.61	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.62	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.51	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.51	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.86	ug/l	
	m,p-Xylene	ND	1.0	0.62	ug/l	
95-47-6	o-Xylene	ND	1.0	0.56	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	90%	70-130%
2037-26-5	Toluene-D8	101%	70-130%
460-00-4	4-Bromofluorobenzene	94%	70-130%

Method Blank Summary

Job Number: M97347
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSE2170-MB	E51394.D	1	01/31/11	TD	n/a	n/a	MSE2170

The QC reported here applies to the following samples: Method: SW846 8260B

M97347-3, M97347-4, M97347-5, M97347-6

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	4.6	ug/l	
71-43-2	Benzene	ND	0.50	0.35	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.52	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.91	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.62	ug/l	
75-25-2	Bromoform	ND	1.0	0.73	ug/l	
74-83-9	Bromomethane	ND	2.0	0.95	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.1	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.49	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.37	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.53	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.35	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.42	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.61	ug/l	
75-00-3	Chloroethane	ND	2.0	0.76	ug/l	
67-66-3	Chloroform	ND	1.0	0.72	ug/l	
74-87-3	Chloromethane	ND	2.0	0.81	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.58	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.67	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.3	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.86	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.74	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.77	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.81	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.61	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.63	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.74	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.70	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.66	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.74	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.83	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.73	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.44	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.34	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.23	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.23	ug/l	

Method Blank Summary

Job Number: M97347
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSE2170-MB	E51394.D	1	01/31/11	TD	n/a	n/a	MSE2170

The QC reported here applies to the following samples: Method: SW846 8260B

M97347-3, M97347-4, M97347-5, M97347-6

CAS No.	Compound	Result	RL	MDL	Units	Q
100-41-4	Ethylbenzene	ND	1.0	0.61	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.56	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.51	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.45	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.54	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.94	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.75	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.43	ug/l	
100-42-5	Styrene	ND	5.0	0.68	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.64	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.89	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.39	ug/l	
108-88-3	Toluene	ND	1.0	0.74	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.57	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.35	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.72	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.49	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.47	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.61	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.62	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.51	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.51	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.86	ug/l	
	m,p-Xylene	ND	1.0	0.62	ug/l	
95-47-6	o-Xylene	ND	1.0	0.56	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	112%	70-130%
2037-26-5	Toluene-D8	116%	70-130%
460-00-4	4-Bromofluorobenzene	110%	70-130%

Blank Spike/Blank Spike Duplicate Summary

Job Number: M97347
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSN1853-BS	N49088.D	1	01/27/11	JP	n/a	n/a	MSN1853
MSN1853-BSD	N49089.D	1	01/27/11	JP	n/a	n/a	MSN1853

The QC reported here applies to the following samples: Method: SW846 8260B

M97347-1, M97347-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	50	45.4	91	29.1	58* [a]	44* [a]	70-130/25
71-43-2	Benzene	50	45.9	92	44.2	88	4	70-130/25
108-86-1	Bromobenzene	50	54.9	110	55.0	110	0	70-130/25
74-97-5	Bromochloromethane	50	51.8	104	49.7	99	4	70-130/25
75-27-4	Bromodichloromethane	50	49.0	98	47.7	95	3	70-130/25
75-25-2	Bromoform	50	57.6	115	56.6	113	2	70-130/25
74-83-9	Bromomethane	50	61.0	122	59.7	119	2	70-130/25
78-93-3	2-Butanone (MEK)	50	53.0	106	37.3	75	35* [b]	70-130/25
104-51-8	n-Butylbenzene	50	48.0	96	46.9	94	2	70-130/25
135-98-8	sec-Butylbenzene	50	50.7	101	49.5	99	2	70-130/25
98-06-6	tert-Butylbenzene	50	48.0	96	46.3	93	4	70-130/25
75-15-0	Carbon disulfide	50	44.5	89	42.7	85	4	70-130/25
56-23-5	Carbon tetrachloride	50	50.6	101	46.7	93	8	70-130/25
108-90-7	Chlorobenzene	50	58.4	117	58.0	116	1	70-130/25
75-00-3	Chloroethane	50	34.0	68* [a]	31.2	62* [a]	9	70-130/25
67-66-3	Chloroform	50	41.6	83	40.0	80	4	70-130/25
74-87-3	Chloromethane	50	43.4	87	41.5	83	4	70-130/25
95-49-8	o-Chlorotoluene	50	45.5	91	44.5	89	2	70-130/25
106-43-4	p-Chlorotoluene	50	48.2	96	47.3	95	2	70-130/25
96-12-8	1,2-Dibromo-3-chloropropane	50	43.2	86	41.7	83	4	70-130/25
124-48-1	Dibromochloromethane	50	62.9	126	61.5	123	2	70-130/25
95-50-1	1,2-Dichlorobenzene	50	52.1	104	51.9	104	0	70-130/25
541-73-1	1,3-Dichlorobenzene	50	53.5	107	53.0	106	1	70-130/25
106-46-7	1,4-Dichlorobenzene	50	56.0	112	54.9	110	2	70-130/25
75-71-8	Dichlorodifluoromethane	50	49.0	98	45.8	92	7	70-130/25
75-34-3	1,1-Dichloroethane	50	39.4	79	37.4	75	5	70-130/25
107-06-2	1,2-Dichloroethane	50	47.6	95	46.5	93	2	70-130/25
75-35-4	1,1-Dichloroethene	50	48.3	97	42.7	85	12	70-130/25
156-59-2	cis-1,2-Dichloroethene	50	43.8	88	42.0	84	4	70-130/25
156-60-5	trans-1,2-Dichloroethene	50	45.2	90	43.9	88	3	70-130/25
78-87-5	1,2-Dichloropropane	50	40.6	81	39.4	79	3	70-130/25
142-28-9	1,3-Dichloropropane	50	49.2	98	49.0	98	0	70-130/25
594-20-7	2,2-Dichloropropane	50	42.4	85	40.1	80	6	70-130/25
563-58-6	1,1-Dichloropropene	50	48.9	98	44.2	88	10	70-130/25
10061-01-5	cis-1,3-Dichloropropene	50	48.1	96	46.4	93	4	70-130/25
10061-02-6	trans-1,3-Dichloropropene	50	51.3	103	49.3	99	4	70-130/25

Blank Spike/Blank Spike Duplicate Summary

Job Number: M97347
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSN1853-BS	N49088.D	1	01/27/11	JP	n/a	n/a	MSN1853
MSN1853-BSD	N49089.D	1	01/27/11	JP	n/a	n/a	MSN1853

The QC reported here applies to the following samples: Method: SW846 8260B

M97347-1, M97347-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
100-41-4	Ethylbenzene	50	55.6	111	53.6	107	4	70-130/25
87-68-3	Hexachlorobutadiene	50	65.1	130	62.5	125	4	70-130/25
98-82-8	Isopropylbenzene	50	58.4	117	56.2	112	4	70-130/25
99-87-6	p-Isopropyltoluene	50	50.4	101	49.0	98	3	70-130/25
1634-04-4	Methyl Tert Butyl Ether	50	42.9	86	41.3	83	4	70-130/25
74-95-3	Methylene bromide	50	54.4	109	53.1	106	2	70-130/25
75-09-2	Methylene chloride	50	42.7	85	39.3	79	8	70-130/25
103-65-1	n-Propylbenzene	50	48.1	96	46.6	93	3	70-130/25
100-42-5	Styrene	50	62.6	125	61.8	124	1	70-130/25
630-20-6	1,1,1,2-Tetrachloroethane	50	60.8	122	59.2	118	3	70-130/25
79-34-5	1,1,2,2-Tetrachloroethane	50	44.8	90	44.1	88	2	70-130/25
127-18-4	Tetrachloroethene	50	67.5	135* [a]	65.0	130	4	70-130/25
108-88-3	Toluene	50	51.0	102	49.2	98	4	70-130/25
87-61-6	1,2,3-Trichlorobenzene	50	59.9	120	60.0	120	0	70-130/25
120-82-1	1,2,4-Trichlorobenzene	50	64.0	128	62.6	125	2	70-130/25
71-55-6	1,1,1-Trichloroethane	50	43.4	87	41.2	82	5	70-130/25
79-00-5	1,1,2-Trichloroethane	50	46.7	93	46.3	93	1	70-130/25
79-01-6	Trichloroethene	50	48.8	98	45.1	90	8	70-130/25
75-69-4	Trichlorofluoromethane	50	40.3	81	36.0	72	11	70-130/25
96-18-4	1,2,3-Trichloropropane	50	43.5	87	42.3	85	3	70-130/25
95-63-6	1,2,4-Trimethylbenzene	50	49.7	99	48.4	97	3	70-130/25
108-67-8	1,3,5-Trimethylbenzene	50	49.5	99	48.4	97	2	70-130/25
108-05-4	Vinyl Acetate	50	24.2	48* [a]	23.9	48* [a]	1	70-130/25
75-01-4	Vinyl chloride	50	42.6	85	41.0	82	4	70-130/25
	m,p-Xylene	100	119	119	116	116	3	70-130/25
95-47-6	o-Xylene	50	59.6	119	58.4	117	2	70-130/25

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	91%	92%	70-130%
2037-26-5	Toluene-D8	104%	104%	70-130%
460-00-4	4-Bromofluorobenzene	90%	91%	70-130%

(a) Outside control limits. Blank Spike meets program technical requirements.
(b) Outside control limits. Individual spike recoveries within acceptance limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: M97347
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSE2170-BS	E51391.D	1	01/31/11	TD	n/a	n/a	MSE2170
MSE2170-BSD	E51392.D	1	01/31/11	TD	n/a	n/a	MSE2170

The QC reported here applies to the following samples: Method: SW846 8260B

M97347-3, M97347-4, M97347-5, M97347-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	50	62.5	125	57.6	115	8	70-130/25
71-43-2	Benzene	50	54.7	109	55.9	112	2	70-130/25
108-86-1	Bromobenzene	50	52.4	105	54.8	110	4	70-130/25
74-97-5	Bromochloromethane	50	50.5	101	51.3	103	2	70-130/25
75-27-4	Bromodichloromethane	50	53.3	107	53.7	107	1	70-130/25
75-25-2	Bromoform	50	46.8	94	46.5	93	1	70-130/25
74-83-9	Bromomethane	50	49.1	98	48.8	98	1	70-130/25
78-93-3	2-Butanone (MEK)	50	51.3	103	49.4	99	4	70-130/25
104-51-8	n-Butylbenzene	50	58.3	117	60.0	120	3	70-130/25
135-98-8	sec-Butylbenzene	50	56.6	113	57.9	116	2	70-130/25
98-06-6	tert-Butylbenzene	50	57.9	116	59.8	120	3	70-130/25
75-15-0	Carbon disulfide	50	57.1	114	58.5	117	2	70-130/25
56-23-5	Carbon tetrachloride	50	55.6	111	56.5	113	2	70-130/25
108-90-7	Chlorobenzene	50	52.2	104	54.5	109	4	70-130/25
75-00-3	Chloroethane	50	51.0	102	52.5	105	3	70-130/25
67-66-3	Chloroform	50	52.9	106	54.3	109	3	70-130/25
74-87-3	Chloromethane	50	49.8	100	51.4	103	3	70-130/25
95-49-8	o-Chlorotoluene	50	55.5	111	57.8	116	4	70-130/25
106-43-4	p-Chlorotoluene	50	56.2	112	57.6	115	2	70-130/25
96-12-8	1,2-Dibromo-3-chloropropane	50	42.8	86	42.5	85	1	70-130/25
124-48-1	Dibromochloromethane	50	49.2	98	50.9	102	3	70-130/25
95-50-1	1,2-Dichlorobenzene	50	51.7	103	53.6	107	4	70-130/25
541-73-1	1,3-Dichlorobenzene	50	50.5	101	52.2	104	3	70-130/25
106-46-7	1,4-Dichlorobenzene	50	55.3	111	56.6	113	2	70-130/25
75-71-8	Dichlorodifluoromethane	50	64.5	129	65.5	131* [a]	2	70-130/25
75-34-3	1,1-Dichloroethane	50	53.2	106	55.3	111	4	70-130/25
107-06-2	1,2-Dichloroethane	50	49.5	99	50.4	101	2	70-130/25
75-35-4	1,1-Dichloroethene	50	52.7	105	54.0	108	2	70-130/25
156-59-2	cis-1,2-Dichloroethene	50	47.5	95	47.9	96	1	70-130/25
156-60-5	trans-1,2-Dichloroethene	50	50.5	101	52.3	105	4	70-130/25
78-87-5	1,2-Dichloropropane	50	51.2	102	51.6	103	1	70-130/25
142-28-9	1,3-Dichloropropane	50	47.3	95	47.6	95	1	70-130/25
594-20-7	2,2-Dichloropropane	50	58.3	117	59.6	119	2	70-130/25
563-58-6	1,1-Dichloropropene	50	53.8	108	55.3	111	3	70-130/25
10061-01-5	cis-1,3-Dichloropropene	50	53.8	108	55.2	110	3	70-130/25
10061-02-6	trans-1,3-Dichloropropene	50	55.5	111	58.2	116	5	70-130/25

Blank Spike/Blank Spike Duplicate Summary

Job Number: M97347
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSE2170-BS	E51391.D	1	01/31/11	TD	n/a	n/a	MSE2170
MSE2170-BSD	E51392.D	1	01/31/11	TD	n/a	n/a	MSE2170

The QC reported here applies to the following samples: Method: SW846 8260B

M97347-3, M97347-4, M97347-5, M97347-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
100-41-4	Ethylbenzene	50	53.5	107	55.3	111	3	70-130/25
87-68-3	Hexachlorobutadiene	50	60.8	122	63.7	127	5	70-130/25
98-82-8	Isopropylbenzene	50	62.9	126	65.7	131* [a]	4	70-130/25
99-87-6	p-Isopropyltoluene	50	58.3	117	59.7	119	2	70-130/25
1634-04-4	Methyl Tert Butyl Ether	50	41.1	82	42.0	84	2	70-130/25
74-95-3	Methylene bromide	50	50.1	100	50.6	101	1	70-130/25
75-09-2	Methylene chloride	50	50.4	101	51.9	104	3	70-130/25
103-65-1	n-Propylbenzene	50	54.7	109	56.5	113	3	70-130/25
100-42-5	Styrene	50	49.1	98	50.3	101	2	70-130/25
630-20-6	1,1,1,2-Tetrachloroethane	50	53.5	107	53.9	108	1	70-130/25
79-34-5	1,1,2,2-Tetrachloroethane	50	47.2	94	48.5	97	3	70-130/25
127-18-4	Tetrachloroethene	50	50.2	100	51.2	102	2	70-130/25
108-88-3	Toluene	50	50.6	101	51.7	103	2	70-130/25
87-61-6	1,2,3-Trichlorobenzene	50	43.3	87	46.2	92	6	70-130/25
120-82-1	1,2,4-Trichlorobenzene	50	49.1	98	51.7	103	5	70-130/25
71-55-6	1,1,1-Trichloroethane	50	52.8	106	53.6	107	2	70-130/25
79-00-5	1,1,2-Trichloroethane	50	48.9	98	50.9	102	4	70-130/25
79-01-6	Trichloroethene	50	54.3	109	55.2	110	2	70-130/25
75-69-4	Trichlorofluoromethane	50	55.2	110	55.6	111	1	70-130/25
96-18-4	1,2,3-Trichloropropane	50	44.3	89	46.2	92	4	70-130/25
95-63-6	1,2,4-Trimethylbenzene	50	54.6	109	56.6	113	4	70-130/25
108-67-8	1,3,5-Trimethylbenzene	50	55.0	110	56.4	113	3	70-130/25
108-05-4	Vinyl Acetate	50	32.6	65* [a]	34.4	69* [a]	5	70-130/25
75-01-4	Vinyl chloride	50	51.2	102	53.1	106	4	70-130/25
	m,p-Xylene	100	107	107	111	111	4	70-130/25
95-47-6	o-Xylene	50	48.8	98	49.4	99	1	70-130/25

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	109%	111%	70-130%
2037-26-5	Toluene-D8	115%	116%	70-130%
460-00-4	4-Bromofluorobenzene	112%	114%	70-130%

(a) Outside control limits. Blank Spike meets program technical requirements.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: M97347
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
M97323-5MS	N49107.D	1	01/27/11	JP	n/a	n/a	MSN1853
M97323-5MSD	N49108.D	1	01/27/11	JP	n/a	n/a	MSN1853
M97323-5	N49106.D	1	01/27/11	JP	n/a	n/a	MSN1853

The QC reported here applies to the following samples: Method: SW846 8260B

M97347-1, M97347-2

CAS No.	Compound	M97323-5 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		50	20.2	40* [a]	21.0	42* [a]	4	70-130/30
71-43-2	Benzene	14.9		50	58.5	87	57.4	85	2	70-130/30
108-86-1	Bromobenzene	ND		50	53.9	108	54.1	108	0	70-130/30
74-97-5	Bromochloromethane	ND		50	49.7	99	47.9	96	4	70-130/30
75-27-4	Bromodichloromethane	ND		50	45.4	91	44.3	89	2	70-130/30
75-25-2	Bromoform	ND		50	56.1	112	57.2	114	2	70-130/30
74-83-9	Bromomethane	ND		50	55.6	111	58.2	116	5	70-130/30
78-93-3	2-Butanone (MEK)	ND		50	29.6	59* [a]	29.9	60* [a]	1	70-130/30
104-51-8	n-Butylbenzene	ND		50	46.1	92	46.0	92	0	70-130/30
135-98-8	sec-Butylbenzene	ND		50	49.6	99	49.7	99	0	70-130/30
98-06-6	tert-Butylbenzene	ND		50	46.2	92	45.4	91	2	70-130/30
75-15-0	Carbon disulfide	ND		50	45.7	91	44.5	89	3	70-130/30
56-23-5	Carbon tetrachloride	ND		50	44.4	89	43.7	87	2	70-130/30
108-90-7	Chlorobenzene	ND		50	60.2	120	60.1	120	0	70-130/30
75-00-3	Chloroethane	ND		50	38.3	77	33.8	68* [a]	12	70-130/30
67-66-3	Chloroform	ND		50	37.9	76	37.6	75	1	70-130/30
74-87-3	Chloromethane	ND		50	40.0	80	38.2	76	5	70-130/30
95-49-8	o-Chlorotoluene	ND		50	43.9	88	43.4	87	1	70-130/30
106-43-4	p-Chlorotoluene	ND		50	46.8	94	45.6	91	3	70-130/30
96-12-8	1,2-Dibromo-3-chloropropane	ND		50	40.1	80	42.5	85	6	70-130/30
124-48-1	Dibromochloromethane	ND		50	60.5	121	59.9	120	1	70-130/30
95-50-1	1,2-Dichlorobenzene	ND		50	51.2	102	51.9	104	1	70-130/30
541-73-1	1,3-Dichlorobenzene	ND		50	52.3	105	52.3	105	0	70-130/30
106-46-7	1,4-Dichlorobenzene	ND		50	54.5	109	54.3	109	0	70-130/30
75-71-8	Dichlorodifluoromethane	ND		50	46.4	93	43.4	87	7	70-130/30
75-34-3	1,1-Dichloroethane	ND		50	37.5	75	36.7	73	2	70-130/30
107-06-2	1,2-Dichloroethane	ND		50	43.0	86	41.1	82	5	70-130/30
75-35-4	1,1-Dichloroethene	ND		50	48.6	97	47.4	95	3	70-130/30
156-59-2	cis-1,2-Dichloroethene	ND		50	43.6	87	42.6	85	2	70-130/30
156-60-5	trans-1,2-Dichloroethene	ND		50	45.4	91	44.6	89	2	70-130/30
78-87-5	1,2-Dichloropropane	ND		50	40.6	81	39.1	78	4	70-130/30
142-28-9	1,3-Dichloropropane	ND		50	49.9	100	49.3	99	1	70-130/30
594-20-7	2,2-Dichloropropane	ND		50	36.6	73	35.5	71	3	70-130/30
563-58-6	1,1-Dichloropropene	ND		50	46.8	94	45.4	91	3	70-130/30
10061-01-5	cis-1,3-Dichloropropene	ND		50	44.0	88	44.2	88	0	70-130/30
10061-02-6	trans-1,3-Dichloropropene	ND		50	45.6	91	45.6	91	0	70-130/30

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: M97347
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
M97323-5MS	N49107.D	1	01/27/11	JP	n/a	n/a	MSN1853
M97323-5MSD	N49108.D	1	01/27/11	JP	n/a	n/a	MSN1853
M97323-5	N49106.D	1	01/27/11	JP	n/a	n/a	MSN1853

The QC reported here applies to the following samples: Method: SW846 8260B

M97347-1, M97347-2

CAS No.	Compound	M97323-5 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
100-41-4	Ethylbenzene	188		50	208	40* [b]	203	30* [b]	2	70-130/30
87-68-3	Hexachlorobutadiene	ND		50	61.2	122	64.4	129	5	70-130/30
98-82-8	Isopropylbenzene	25.8		50	76.3	101	75.0	98	2	70-130/30
99-87-6	p-Isopropyltoluene	ND		50	49.4	99	48.6	97	2	70-130/30
1634-04-4	Methyl Tert Butyl Ether	120		50	165	90	163	86	1	70-130/30
74-95-3	Methylene bromide	ND		50	50.6	101	48.9	98	3	70-130/30
75-09-2	Methylene chloride	ND		50	41.9	84	41.2	82	2	70-130/30
103-65-1	n-Propylbenzene	6.6		50	51.9	91	51.0	89	2	70-130/30
100-42-5	Styrene	ND		50	66.0	132* [a]	65.5	131* [a]	1	70-130/30
630-20-6	1,1,1,2-Tetrachloroethane	ND		50	60.5	121	59.7	119	1	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	ND		50	42.2	84	42.9	86	2	70-130/30
127-18-4	Tetrachloroethene	ND		50	69.5	139* [a]	67.9	136* [a]	2	70-130/30
108-88-3	Toluene	5.0		50	54.8	100	53.8	98	2	70-130/30
87-61-6	1,2,3-Trichlorobenzene	ND		50	59.7	119	62.4	125	4	70-130/30
120-82-1	1,2,4-Trichlorobenzene	ND		50	63.2	126	65.0	130	3	70-130/30
71-55-6	1,1,1-Trichloroethane	ND		50	40.5	81	39.2	78	3	70-130/30
79-00-5	1,1,2-Trichloroethane	ND		50	45.5	91	45.8	92	1	70-130/30
79-01-6	Trichloroethene	ND		50	46.0	92	45.7	91	1	70-130/30
75-69-4	Trichlorofluoromethane	ND		50	36.8	74	35.4	71	4	70-130/30
96-18-4	1,2,3-Trichloropropane	ND		50	40.5	81	40.4	81	0	70-130/30
95-63-6	1,2,4-Trimethylbenzene	55.2		50	92.4	74	90.8	71	2	70-130/30
108-67-8	1,3,5-Trimethylbenzene	3.5		50	51.1	95	49.5	92	3	70-130/30
108-05-4	Vinyl Acetate	ND		50	23.7	47* [a]	24.4	49* [a]	3	70-130/30
75-01-4	Vinyl chloride	ND		50	43.8	88	42.4	85	3	70-130/30
	m,p-Xylene	23.1		100	142	119	139	116	2	70-130/30
95-47-6	o-Xylene	83.8		50	132	96	130	92	2	70-130/30

CAS No.	Surrogate Recoveries	MS	MSD	M97323-5	Limits
1868-53-7	Dibromofluoromethane	87%	87%	86%	70-130%
2037-26-5	Toluene-D8	101%	100%	102%	70-130%
460-00-4	4-Bromofluorobenzene	87%	87%	89%	70-130%

(a) Outside control limits due to possible matrix interference. Refer to Blank Spike.
(b) Outside control limits due to high level in sample relative to spike amount.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: M97347
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
M97347-3MS	E51402.D	5	01/31/11	TD	n/a	n/a	MSE2170
M97347-3MSD	E51403.D	5	01/31/11	TD	n/a	n/a	MSE2170
M97347-3	E51401.D	1	01/31/11	TD	n/a	n/a	MSE2170

The QC reported here applies to the following samples: Method: SW846 8260B

M97347-3, M97347-4, M97347-5, M97347-6

CAS No.	Compound	M97347-3 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		250	229	92	232	93	1	70-130/30
71-43-2	Benzene	8.2		250	282	110	288	112	2	70-130/30
108-86-1	Bromobenzene	ND		250	261	104	274	110	5	70-130/30
74-97-5	Bromochloromethane	ND		250	254	102	260	104	2	70-130/30
75-27-4	Bromodichloromethane	ND		250	243	97	252	101	4	70-130/30
75-25-2	Bromoform	ND		250	178	71	179	72	1	70-130/30
74-83-9	Bromomethane	ND		250	260	104	263	105	1	70-130/30
78-93-3	2-Butanone (MEK)	ND		250	244	98	200	80	20	70-130/30
104-51-8	n-Butylbenzene	ND		250	290	116	308	123	6	70-130/30
135-98-8	sec-Butylbenzene	ND		250	283	113	300	120	6	70-130/30
98-06-6	tert-Butylbenzene	ND		250	282	113	301	120	7	70-130/30
75-15-0	Carbon disulfide	ND		250	236	94	240	96	2	70-130/30
56-23-5	Carbon tetrachloride	ND		250	280	112	289	116	3	70-130/30
108-90-7	Chlorobenzene	ND		250	269	108	273	109	1	70-130/30
75-00-3	Chloroethane	ND		250	267	107	276	110	3	70-130/30
67-66-3	Chloroform	ND		250	274	110	276	110	1	70-130/30
74-87-3	Chloromethane	ND		250	278	111	284	114	2	70-130/30
95-49-8	o-Chlorotoluene	ND		250	275	110	291	116	6	70-130/30
106-43-4	p-Chlorotoluene	ND		250	279	112	293	117	5	70-130/30
96-12-8	1,2-Dibromo-3-chloropropane	ND		250	195	78	204	82	5	70-130/30
124-48-1	Dibromochloromethane	ND		250	211	84	217	87	3	70-130/30
95-50-1	1,2-Dichlorobenzene	ND		250	255	102	265	106	4	70-130/30
541-73-1	1,3-Dichlorobenzene	ND		250	252	101	258	103	2	70-130/30
106-46-7	1,4-Dichlorobenzene	ND		250	273	109	280	112	3	70-130/30
75-71-8	Dichlorodifluoromethane	ND		250	348	139* [a]	350	140* [a]	1	70-130/30
75-34-3	1,1-Dichloroethane	ND		250	278	111	287	115	3	70-130/30
107-06-2	1,2-Dichloroethane	ND		250	237	95	244	98	3	70-130/30
75-35-4	1,1-Dichloroethene	ND		250	273	109	282	113	3	70-130/30
156-59-2	cis-1,2-Dichloroethene	ND		250	240	96	248	99	3	70-130/30
156-60-5	trans-1,2-Dichloroethene	ND		250	260	104	268	107	3	70-130/30
78-87-5	1,2-Dichloropropane	ND		250	254	102	266	106	5	70-130/30
142-28-9	1,3-Dichloropropane	ND		250	230	92	242	97	5	70-130/30
594-20-7	2,2-Dichloropropane	ND		250	303	121	305	122	1	70-130/30
563-58-6	1,1-Dichloropropene	ND		250	277	111	282	113	2	70-130/30
10061-01-5	cis-1,3-Dichloropropene	ND		250	244	98	252	101	3	70-130/30
10061-02-6	trans-1,3-Dichloropropene	ND		250	247	99	256	102	4	70-130/30

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: M97347
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
M97347-3MS	E51402.D	5	01/31/11	TD	n/a	n/a	MSE2170
M97347-3MSD	E51403.D	5	01/31/11	TD	n/a	n/a	MSE2170
M97347-3	E51401.D	1	01/31/11	TD	n/a	n/a	MSE2170

The QC reported here applies to the following samples: Method: SW846 8260B

M97347-3, M97347-4, M97347-5, M97347-6

CAS No.	Compound	M97347-3 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
100-41-4	Ethylbenzene	ND		250	270	108	282	113	4	70-130/30
87-68-3	Hexachlorobutadiene	ND		250	311	124	334	134* [a]	7	70-130/30
98-82-8	Isopropylbenzene	ND		250	315	126	336	134* [a]	6	70-130/30
99-87-6	p-Isopropyltoluene	ND		250	290	116	307	123	6	70-130/30
1634-04-4	Methyl Tert Butyl Ether	1.6		250	200	79	209	83	4	70-130/30
74-95-3	Methylene bromide	ND		250	250	100	249	100	0	70-130/30
75-09-2	Methylene chloride	ND		250	256	102	265	106	3	70-130/30
103-65-1	n-Propylbenzene	ND		250	275	110	290	116	5	70-130/30
100-42-5	Styrene	ND		250	209	84	215	86	3	70-130/30
630-20-6	1,1,1,2-Tetrachloroethane	ND		250	269	108	277	111	3	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	ND		250	232	93	236	94	2	70-130/30
127-18-4	Tetrachloroethene	ND		250	256	102	264	106	3	70-130/30
108-88-3	Toluene	ND		250	251	100	254	102	1	70-130/30
87-61-6	1,2,3-Trichlorobenzene	ND		250	216	86	232	93	7	70-130/30
120-82-1	1,2,4-Trichlorobenzene	ND		250	238	95	260	104	9	70-130/30
71-55-6	1,1,1-Trichloroethane	ND		250	279	112	282	113	1	70-130/30
79-00-5	1,1,2-Trichloroethane	ND		250	248	99	243	97	2	70-130/30
79-01-6	Trichloroethene	ND		250	270	108	275	110	2	70-130/30
75-69-4	Trichlorofluoromethane	ND		250	293	117	304	122	4	70-130/30
96-18-4	1,2,3-Trichloropropane	ND		250	204	82	218	87	7	70-130/30
95-63-6	1,2,4-Trimethylbenzene	ND		250	254	102	272	109	7	70-130/30
108-67-8	1,3,5-Trimethylbenzene	ND		250	261	104	279	112	7	70-130/30
108-05-4	Vinyl Acetate	ND		250	149	60* [a]	160	64* [a]	7	70-130/30
75-01-4	Vinyl chloride	ND		250	276	110	284	114	3	70-130/30
	m,p-Xylene	ND		500	538	108	556	111	3	70-130/30
95-47-6	o-Xylene	ND		250	243	97	250	100	3	70-130/30

CAS No.	Surrogate Recoveries	MS	MSD	M97347-3	Limits
1868-53-7	Dibromofluoromethane	108%	110%	114%	70-130%
2037-26-5	Toluene-D8	112%	113%	118%	70-130%
460-00-4	4-Bromofluorobenzene	108%	115%	112%	70-130%

(a) Outside control limits due to possible matrix interference. Refer to Blank Spike.

Volatile Internal Standard Area Summary

Job Number: M97347
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Check Std:	MSE2170-CC2152	Injection Date:	01/31/11
Lab File ID:	E51390.D	Injection Time:	10:10
Instrument ID:	GCMSE	Method:	SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	258610	9.10	421768	9.98	186730	13.24	181279	15.80	45421	6.61
Upper Limit [a]	517220	9.60	843536	10.48	373460	13.74	362558	16.30	90842	7.11
Lower Limit [b]	129305	8.60	210884	9.48	93365	12.74	90640	15.30	22711	6.11
Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
MSE2170-BS	260644	9.10	422955	9.97	189126	13.24	176962	15.80	43862	6.61
MSE2170-BSD	255699	9.10	415613	9.97	185442	13.24	172080	15.80	44740	6.60
MSE2170-MB	242359	9.09	389164	9.97	166698	13.24	158217	15.80	39770	6.61
ZZZZZZ	236819	9.10	380812	9.97	162514	13.25	153840	15.80	37004	6.61
ZZZZZZ	250666	9.10	399919	9.98	168270	13.24	160247	15.81	40885	6.61
ZZZZZZ	246889	9.10	397174	9.98	165727	13.24	161053	15.80	42108	6.60
M97347-5	236949	9.10	380012	9.98	162471	13.24	151386	15.81	33128	6.61
M97347-6	238982	9.10	383811	9.97	163262	13.24	156243	15.80	40223	6.61
ZZZZZZ	237548	9.10	376532	9.97	161884	13.25	151687	15.80	35730	6.62
M97347-3	233433	9.09	374476	9.98	157549	13.24	149198	15.80	37233	6.60
M97347-3MS	242688	9.10	398125	9.97	176314	13.24	170130	15.80	37199	6.61
M97347-3MSD	244229	9.09	400072	9.98	174295	13.24	163410	15.80	36875	6.60
M97347-4	237201	9.09	378277	9.97	157690	13.24	153787	15.80	36247	6.60
ZZZZZZ	241972	9.10	382213	9.98	164786	13.24	151740	15.80	36929	6.61
ZZZZZZ	233061	9.10	376272	9.97	158030	13.24	147882	15.80	35185	6.61
ZZZZZZ	237457	9.10	381939	9.97	162081	13.24	154036	15.80	34352	6.60
ZZZZZZ	225056	9.09	367319	9.97	153964	13.24	145320	15.80	34019	6.61
ZZZZZZ	220505	9.09	361291	9.98	153410	13.24	142387	15.80	35261	6.60
ZZZZZZ	222436	9.10	354027	9.97	150787	13.24	146005	15.80	31157	6.61
ZZZZZZ	223741	9.09	352296	9.98	156478	13.24	144588	15.80	36835	6.60
ZZZZZZ	220666	9.10	355602	9.98	151629	13.24	144221	15.80	35853	6.61
ZZZZZZ	223768	9.09	361745	9.97	153859	13.24	143640	15.80	32181	6.60
ZZZZZZ	215077	9.10	356557	9.97	153432	13.24	142576	15.80	32321	6.60

IS 1 = Pentafluorobenzene
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5
IS 4 = 1,4-Dichlorobenzene-d4
IS 5 = Tert Butyl Alcohol-D9

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Internal Standard Area Summary

Job Number: M97347
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Check Std:	MSN1853-CC1823	Injection Date:	01/27/11
Lab File ID:	N49087.D	Injection Time:	12:29
Instrument ID:	GCMSN	Method:	SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	167293	8.60	228544	9.46	124496	12.71	118765	15.27	60814	6.19
Upper Limit [a]	334586	9.10	457088	9.96	248992	13.21	237530	15.77	121628	6.69
Lower Limit [b]	83647	8.10	114272	8.96	62248	12.21	59383	14.77	30407	5.69
Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
MSN1853-BS	171973	8.60	235759	9.46	129645	12.71	122920	15.27	65373	6.19
MSN1853-BSD	172901	8.60	238171	9.46	128716	12.71	121843	15.27	61507	6.19
MSN1853-MB	167568	8.61	230698	9.46	119475	12.71	106453	15.27	65796	6.19
ZZZZZZ	167656	8.61	227015	9.46	115712	12.71	104611	15.27	59183	6.19
ZZZZZZ	150220	8.61	203142	9.47	114651	12.71	102569	15.27	54835	6.19
ZZZZZZ	165488	8.60	226318	9.46	117240	12.71	113961	15.27	57167	6.19
ZZZZZZ	169643	8.61	231137	9.46	121461	12.71	118830	15.27	58986	6.19
ZZZZZZ	174500	8.60	238281	9.46	122847	12.71	119979	15.27	61898	6.19
ZZZZZZ	177827	8.60	242382	9.46	123658	12.71	124441	15.27	62003	6.19
ZZZZZZ	178478	8.60	245822	9.46	125782	12.71	123814	15.27	68820	6.19
ZZZZZZ	180740	8.60	247357	9.46	125170	12.71	116329	15.27	70138	6.19
M97347-1	173511	8.60	240361	9.46	122013	12.71	112928	15.27	64973	6.19
M97347-2	173123	8.60	238017	9.46	120131	12.71	111408	15.27	69741	6.19
ZZZZZZ	174180	8.60	236904	9.46	123066	12.71	124552	15.27	66478	6.19
ZZZZZZ	185310	8.61	250555	9.46	128644	12.71	123763	15.27	68471	6.19
ZZZZZZ	186798	8.60	255134	9.46	127624	12.71	121197	15.27	67310	6.19
M97323-5	187988	8.60	256688	9.46	129415	12.71	129707	15.27	65318	6.19
M97323-5MS	195056	8.60	268216	9.46	138949	12.71	139537	15.27	69942	6.19
M97323-5MSD	195750	8.60	267415	9.46	139495	12.71	139807	15.27	73926	6.19
ZZZZZZ	193474	8.61	262804	9.46	131558	12.71	131227	15.27	65654	6.19
ZZZZZZ	196003	8.60	262972	9.46	130182	12.71	121431	15.27	64874	6.19

IS 1 = Pentafluorobenzene
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5
IS 4 = 1,4-Dichlorobenzene-d4
IS 5 = Tert Butyl Alcohol-D9

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Surrogate Recovery Summary

Job Number: M97347
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Method: SW846 8260B Matrix: AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
M97347-1	N49101.D	91.0	102.0	93.0
M97347-2	N49102.D	88.0	101.0	95.0
M97347-3	E51401.D	114.0	118.0	112.0
M97347-4	E51404.D	111.0	115.0	110.0
M97347-5	E51398.D	113.0	116.0	111.0
M97347-6	E51399.D	110.0	116.0	109.0
M97323-5MS	N49107.D	87.0	101.0	87.0
M97323-5MSD	N49108.D	87.0	100.0	87.0
M97347-3MS	E51402.D	108.0	112.0	108.0
M97347-3MSD	E51403.D	110.0	113.0	115.0
MSE2170-BS	E51391.D	109.0	115.0	112.0
MSE2170-BSD	E51392.D	111.0	116.0	114.0
MSE2170-MB	E51394.D	112.0	116.0	110.0
MSN1853-BS	N49088.D	91.0	104.0	90.0
MSN1853-BSD	N49089.D	92.0	104.0	91.0
MSN1853-MB	N49091.D	90.0	101.0	94.0

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	70-130%
S2 = Toluene-D8	70-130%
S3 = 4-Bromofluorobenzene	70-130%

New England ACCUTEST LABORATORIES

GC/MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: M97347
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP23942-MB	I70221.D	1	02/02/11	AA	01/25/11	OP23942	MSI2472

The QC reported here applies to the following samples: Method: SW846 8270C

M97347-2, M97347-3, M97347-4, M97347-5, M97347-6

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	10	0.77	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	0.68	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.57	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.69	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	2.2	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	2.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	5.0	ug/l	
95-48-7	2-Methylphenol	ND	10	0.48	ug/l	
	3&4-Methylphenol	ND	10	0.63	ug/l	
88-75-5	2-Nitrophenol	ND	10	0.66	ug/l	
100-02-7	4-Nitrophenol	ND	20	5.0	ug/l	
87-86-5	Pentachlorophenol	ND	10	3.3	ug/l	
108-95-2	Phenol	ND	5.0	2.1	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.40	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.38	ug/l	
83-32-9	Acenaphthene	ND	5.0	0.34	ug/l	
208-96-8	Acenaphthylene	ND	5.0	1.3	ug/l	
62-53-3	Aniline	ND	10	0.46	ug/l	
120-12-7	Anthracene	ND	5.0	0.27	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	0.27	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	0.23	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	0.27	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	0.61	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	0.29	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	0.32	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	0.41	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.31	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.58	ug/l	
218-01-9	Chrysene	ND	5.0	0.22	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	0.35	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	0.23	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	0.21	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	0.61	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	1.3	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.34	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	2.5	ug/l	

Method Blank Summary

Job Number: M97347
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP23942-MB	I70221.D	1	02/02/11	AA	01/25/11	OP23942	MSI2472

The QC reported here applies to the following samples: Method: SW846 8270C

M97347-2, M97347-3, M97347-4, M97347-5, M97347-6

CAS No.	Compound	Result	RL	MDL	Units	Q
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	0.25	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.32	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	0.34	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	0.34	ug/l	
84-66-2	Diethyl phthalate	1.8	5.0	0.61	ug/l	J
131-11-3	Dimethyl phthalate	ND	5.0	1.3	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.49	ug/l	
206-44-0	Fluoranthene	ND	5.0	0.22	ug/l	
86-73-7	Fluorene	ND	5.0	0.29	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	0.16	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	2.5	ug/l	
67-72-1	Hexachloroethane	ND	5.0	0.43	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	0.29	ug/l	
78-59-1	Isophorone	ND	5.0	0.47	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	0.31	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.33	ug/l	
99-09-2	3-Nitroaniline	ND	10	0.32	ug/l	
100-01-6	4-Nitroaniline	ND	10	0.33	ug/l	
91-20-3	Naphthalene	ND	5.0	0.33	ug/l	
98-95-3	Nitrobenzene	ND	5.0	0.31	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	0.41	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.61	ug/l	
85-01-8	Phenanthrene	ND	5.0	0.26	ug/l	
129-00-0	Pyrene	ND	5.0	0.25	ug/l	
110-86-1	Pyridine	ND	10	0.50	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	43%	15-110%
4165-62-2	Phenol-d5	26%	15-110%
118-79-6	2,4,6-Tribromophenol	65%	15-110%
4165-60-0	Nitrobenzene-d5	74%	30-130%
321-60-8	2-Fluorobiphenyl	73%	30-130%
1718-51-0	Terphenyl-d14	82%	30-130%

Blank Spike Summary

Job Number: M97347
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP23942-BS	I70222.D	1	02/02/11	AA	01/25/11	OP23942	MSI2472

The QC reported here applies to the following samples: Method: SW846 8270C

M97347-2, M97347-3, M97347-4, M97347-5, M97347-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
65-85-0	Benzoic Acid	100	18.3	18* [a]	30-130
95-57-8	2-Chlorophenol	100	78.4	78	30-130
59-50-7	4-Chloro-3-methyl phenol	100	84.5	85	30-130
120-83-2	2,4-Dichlorophenol	100	85.8	86	30-130
105-67-9	2,4-Dimethylphenol	100	76.4	76	30-130
51-28-5	2,4-Dinitrophenol	100	86.5	87	30-130
534-52-1	4,6-Dinitro-o-cresol	100	85.1	85	30-130
95-48-7	2-Methylphenol	100	72.7	73	30-130
	3&4-Methylphenol	200	133	67	30-130
88-75-5	2-Nitrophenol	100	85.5	86	30-130
100-02-7	4-Nitrophenol	100	46.5	47	30-130
87-86-5	Pentachlorophenol	100	78.1	78	30-130
108-95-2	Phenol	100	34.1	34	30-130
95-95-4	2,4,5-Trichlorophenol	100	85.1	85	30-130
88-06-2	2,4,6-Trichlorophenol	100	85.2	85	30-130
83-32-9	Acenaphthene	50	43.2	86	40-140
208-96-8	Acenaphthylene	50	35.3	71	40-140
62-53-3	Aniline	50	32.3	65	40-140
120-12-7	Anthracene	50	41.9	84	40-140
56-55-3	Benzo(a)anthracene	50	47.4	95	40-140
50-32-8	Benzo(a)pyrene	50	39.3	79	40-140
205-99-2	Benzo(b)fluoranthene	50	44.9	90	40-140
191-24-2	Benzo(g,h,i)perylene	50	35.4	71	40-140
207-08-9	Benzo(k)fluoranthene	50	45.6	91	40-140
101-55-3	4-Bromophenyl phenyl ether	50	42.3	85	40-140
85-68-7	Butyl benzyl phthalate	50	46.2	92	40-140
91-58-7	2-Chloronaphthalene	50	42.1	84	40-140
106-47-8	4-Chloroaniline	50	34.8	70	40-140
218-01-9	Chrysene	50	50.1	100	40-140
111-91-1	bis(2-Chloroethoxy)methane	50	41.7	83	40-140
111-44-4	bis(2-Chloroethyl)ether	50	43.3	87	40-140
108-60-1	bis(2-Chloroisopropyl)ether	50	45.3	91	40-140
7005-72-3	4-Chlorophenyl phenyl ether	50	43.9	88	40-140
121-14-2	2,4-Dinitrotoluene	50	44.9	90	40-140
606-20-2	2,6-Dinitrotoluene	50	43.6	87	40-140
91-94-1	3,3'-Dichlorobenzidine	50	38.2	76	40-140

Blank Spike Summary

Job Number: M97347
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP23942-BS	I70222.D	1	02/02/11	AA	01/25/11	OP23942	MSI2472

The QC reported here applies to the following samples: Method: SW846 8270C

M97347-2, M97347-3, M97347-4, M97347-5, M97347-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
53-70-3	Dibenzo(a,h)anthracene	50	37.7	75	40-140
132-64-9	Dibenzofuran	50	41.9	84	40-140
84-74-2	Di-n-butyl phthalate	50	45.7	91	40-140
117-84-0	Di-n-octyl phthalate	50	51.7	103	40-140
84-66-2	Diethyl phthalate	50	46.7	93	40-140
131-11-3	Dimethyl phthalate	50	44.7	89	40-140
117-81-7	bis(2-Ethylhexyl)phthalate	50	48.1	96	40-140
206-44-0	Fluoranthene	50	46.0	92	40-140
86-73-7	Fluorene	50	44.3	89	40-140
118-74-1	Hexachlorobenzene	50	42.6	85	40-140
77-47-4	Hexachlorocyclopentadiene	50	30.2	60	40-140
67-72-1	Hexachloroethane	50	38.6	77	40-140
193-39-5	Indeno(1,2,3-cd)pyrene	50	37.7	75	40-140
78-59-1	Isophorone	50	41.5	83	40-140
91-57-6	2-Methylnaphthalene	50	39.4	79	40-140
88-74-4	2-Nitroaniline	50	44.6	89	40-140
99-09-2	3-Nitroaniline	50	34.9	70	40-140
100-01-6	4-Nitroaniline	50	42.0	84	40-140
91-20-3	Naphthalene	50	42.4	85	40-140
98-95-3	Nitrobenzene	50	41.4	83	40-140
621-64-7	N-Nitroso-di-n-propylamine	50	46.3	93	40-140
86-30-6	N-Nitrosodiphenylamine	50	43.0	86	40-140
85-01-8	Phenanthrene	50	43.1	86	40-140
129-00-0	Pyrene	50	43.8	88	40-140
110-86-1	Pyridine	50	26.1	52	40-140

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	50%	15-110%
4165-62-2	Phenol-d5	32%	15-110%
118-79-6	2,4,6-Tribromophenol	78%	15-110%
4165-60-0	Nitrobenzene-d5	83%	30-130%
321-60-8	2-Fluorobiphenyl	81%	30-130%
1718-51-0	Terphenyl-d14	85%	30-130%

Blank Spike Summary

Job Number: M97347
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP23942-BS	I70222.D	1	02/02/11	AA	01/25/11	OP23942	MSI2472

The QC reported here applies to the following samples: Method: SW846 8270C

M97347-2, M97347-3, M97347-4, M97347-5, M97347-6

(a) Outside control limits. Blank Spike meets program technical requirements.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: M97347
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP23942-MS	I70223.D	1	02/02/11	AA	01/25/11	OP23942	MSI2472
OP23942-MSD	I70224.D	1	02/02/11	AA	01/25/11	OP23942	MSI2472
M97378-1	I70225.D	1	02/02/11	AA	01/25/11	OP23942	MSI2472

The QC reported here applies to the following samples: Method: SW846 8270C

M97347-2, M97347-3, M97347-4, M97347-5, M97347-6

CAS No.	Compound	M97378-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
65-85-0	Benzoic Acid	ND		100	20.3	20* [a]	22.4	22* [a]	10	30-130/20
95-57-8	2-Chlorophenol	ND		100	79.9	80	76.7	77	4	30-130/20
59-50-7	4-Chloro-3-methyl phenol	ND		100	88.6	89	84.6	85	5	30-130/20
120-83-2	2,4-Dichlorophenol	ND		100	87.5	88	84.5	85	3	30-130/20
105-67-9	2,4-Dimethylphenol	ND		100	69.4	69	68.8	69	1	30-130/20
51-28-5	2,4-Dinitrophenol	ND		100	88.8	89	89.1	89	0	30-130/20
534-52-1	4,6-Dinitro-o-cresol	ND		100	87.3	87	88.7	89	2	30-130/20
95-48-7	2-Methylphenol	ND		100	71.7	72	70.4	70	2	30-130/20
	3&4-Methylphenol	ND		200	134	67	129	65	4	30-130/20
88-75-5	2-Nitrophenol	ND		100	87.8	88	85.1	85	3	30-130/20
100-02-7	4-Nitrophenol	ND		100	45.4	45	45.2	45	0	30-130/20
87-86-5	Pentachlorophenol	ND		100	83.9	84	80.8	81	4	30-130/20
108-95-2	Phenol	ND		100	34.0	34	33.4	33	2	30-130/20
95-95-4	2,4,5-Trichlorophenol	ND		100	87.0	87	82.6	83	5	30-130/20
88-06-2	2,4,6-Trichlorophenol	ND		100	87.2	87	84.2	84	4	30-130/20
83-32-9	Acenaphthene	ND		50	43.5	87	41.1	82	6	40-140/20
208-96-8	Acenaphthylene	ND		50	36.2	72	34.9	70	4	40-140/20
62-53-3	Aniline	ND		50	24.7	49	27.8	56	12	40-140/20
120-12-7	Anthracene	ND		50	41.6	83	40.6	81	2	40-140/20
56-55-3	Benzo(a)anthracene	ND		50	48.5	97	46.8	94	4	40-140/20
50-32-8	Benzo(a)pyrene	ND		50	40.5	81	39.0	78	4	40-140/20
205-99-2	Benzo(b)fluoranthene	ND		50	46.3	93	43.9	88	5	40-140/20
191-24-2	Benzo(g,h,i)perylene	ND		50	35.8	72	33.5	67	7	40-140/20
207-08-9	Benzo(k)fluoranthene	ND		50	47.3	95	47.0	94	1	40-140/20
101-55-3	4-Bromophenyl phenyl ether	ND		50	43.4	87	41.8	84	4	40-140/20
85-68-7	Butyl benzyl phthalate	ND		50	46.9	94	45.6	91	3	40-140/20
91-58-7	2-Chloronaphthalene	ND		50	43.0	86	41.3	83	4	40-140/20
106-47-8	4-Chloroaniline	ND		50	18.3	37* [a]	21.2	42	15	40-140/20
218-01-9	Chrysene	ND		50	51.4	103	48.5	97	6	40-140/20
111-91-1	bis(2-Chloroethoxy)methane	ND		50	43.1	86	41.6	83	4	40-140/20
111-44-4	bis(2-Chloroethyl)ether	ND		50	44.8	90	41.7	83	7	40-140/20
108-60-1	bis(2-Chloroisopropyl)ether	ND		50	46.0	92	41.6	83	10	40-140/20
7005-72-3	4-Chlorophenyl phenyl ether	ND		50	43.7	87	41.1	82	6	40-140/20
121-14-2	2,4-Dinitrotoluene	ND		50	44.9	90	43.9	88	2	40-140/20
606-20-2	2,6-Dinitrotoluene	ND		50	44.3	89	43.3	87	2	40-140/20
91-94-1	3,3'-Dichlorobenzidine	ND		50	29.1	58	28.9	58	1	40-140/20

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: M97347
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP23942-MS	I70223.D	1	02/02/11	AA	01/25/11	OP23942	MSI2472
OP23942-MSD	I70224.D	1	02/02/11	AA	01/25/11	OP23942	MSI2472
M97378-1	I70225.D	1	02/02/11	AA	01/25/11	OP23942	MSI2472

The QC reported here applies to the following samples: Method: SW846 8270C

M97347-2, M97347-3, M97347-4, M97347-5, M97347-6

CAS No.	Compound	M97378-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
53-70-3	Dibenzo(a,h)anthracene	ND		50	38.2	76	36.1	72	6	40-140/20
132-64-9	Dibenzofuran	ND		50	42.2	84	40.3	81	5	40-140/20
84-74-2	Di-n-butyl phthalate	ND		50	45.8	92	44.8	90	2	40-140/20
117-84-0	Di-n-octyl phthalate	ND		50	53.7	107	52.7	105	2	40-140/20
84-66-2	Diethyl phthalate	1.6		50	46.8	90	45.2	87	3	40-140/20
131-11-3	Dimethyl phthalate	ND		50	44.7	89	43.7	87	2	40-140/20
117-81-7	bis(2-Ethylhexyl)phthalate	ND		50	49.1	98	47.7	95	3	40-140/20
206-44-0	Fluoranthene	ND		50	46.1	92	44.1	88	4	40-140/20
86-73-7	Fluorene	ND		50	44.4	89	42.1	84	5	40-140/20
118-74-1	Hexachlorobenzene	ND		50	43.7	87	41.6	83	5	40-140/20
77-47-4	Hexachlorocyclopentadiene	ND		50	31.4	63	30.8	62	2	40-140/20
67-72-1	Hexachloroethane	ND		50	39.5	79	37.4	75	5	40-140/20
193-39-5	Indeno(1,2,3-cd)pyrene	ND		50	38.4	77	36.6	73	5	40-140/20
78-59-1	Isophorone	ND		50	43.0	86	41.3	83	4	40-140/20
91-57-6	2-Methylnaphthalene	ND		50	41.0	82	38.3	77	7	40-140/20
88-74-4	2-Nitroaniline	ND		50	45.3	91	44.0	88	3	40-140/20
99-09-2	3-Nitroaniline	ND		50	21.9	44	24.6	49	12	40-140/20
100-01-6	4-Nitroaniline	ND		50	38.6	77	38.8	78	1	40-140/20
91-20-3	Naphthalene	ND		50	43.8	88	41.9	84	4	40-140/20
98-95-3	Nitrobenzene	ND		50	42.0	84	40.8	82	3	40-140/20
621-64-7	N-Nitroso-di-n-propylamine	ND		50	48.1	96	44.5	89	8	40-140/20
86-30-6	N-Nitrosodiphenylamine	ND		50	44.3	89	42.5	85	4	40-140/20
85-01-8	Phenanthrene	ND		50	43.6	87	42.4	85	3	40-140/20
129-00-0	Pyrene	ND		50	44.4	89	43.0	86	3	40-140/20
110-86-1	Pyridine	ND		50	24.9	50	28.2	56	12	40-140/20

CAS No.	Surrogate Recoveries	MS	MSD	M97378-1	Limits
367-12-4	2-Fluorophenol	49%	49%	35%	15-110%
4165-62-2	Phenol-d5	31%	31%	21%	15-110%
118-79-6	2,4,6-Tribromophenol	78%	76%	59%	15-110%
4165-60-0	Nitrobenzene-d5	84%	80%	64%	30-130%
321-60-8	2-Fluorobiphenyl	82%	78%	65%	30-130%
1718-51-0	Terphenyl-d14	86%	85%	73%	30-130%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: M97347
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP23942-MS	I70223.D	1	02/02/11	AA	01/25/11	OP23942	MSI2472
OP23942-MSD	I70224.D	1	02/02/11	AA	01/25/11	OP23942	MSI2472
M97378-1	I70225.D	1	02/02/11	AA	01/25/11	OP23942	MSI2472

The QC reported here applies to the following samples: Method: SW846 8270C

M97347-2, M97347-3, M97347-4, M97347-5, M97347-6

(a) Outside control limits due to possible matrix interference. Refer to Blank Spike.

Semivolatile Internal Standard Area Summary

Job Number: M97347
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Check Std:	MSI2472-CC2467	Injection Date:	02/02/11
Lab File ID:	I70217.D	Injection Time:	12:31
Instrument ID:	GCMSI	Method:	SW846 8270C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	292933	5.83	1097131	7.18	550055	9.67	902740	12.22	810859	17.20	707204	19.75
Upper Limit [a]	585866	6.33	2194262	7.68	1100110	10.17	1805480	12.72	1621718	17.70	1414408	20.25
Lower Limit [b]	146467	5.33	548566	6.68	275028	9.17	451370	11.72	405430	16.70	353602	19.25
Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
ZZZZZZ	283222	5.83	1084662	7.17	544971	9.67	894222	12.21	748949	17.19	641120	19.74
ZZZZZZ	304905	5.83	1164586	7.17	591102	9.67	965005	12.22	818052	17.20	700266	19.74
OP23942-MB	273706	5.83	1040413	7.17	527168	9.67	860523	12.22	743118	17.19	658728	19.74
OP23942-BS	252157	5.83	957662	7.17	473238	9.67	775808	12.22	689687	17.20	627759	19.74
OP23942-MS	260122	5.83	989310	7.17	500497	9.67	814896	12.22	722322	17.20	642526	19.74
OP23942-MSD	299395	5.83	1118022	7.17	551394	9.67	881335	12.22	765990	17.20	661545	19.74
M97378-1	262832	5.83	990445	7.17	495978	9.67	810599	12.21	701280	17.19	633202	19.74
ZZZZZZ	251252	5.83	947311	7.17	482552	9.67	783972	12.21	682158	17.19	607960	19.74
ZZZZZZ	258382	5.83	996174	7.17	494269	9.67	807884	12.21	701949	17.19	628283	19.74
ZZZZZZ	266583	5.83	1043941	7.18	531365	9.68	888782	12.23	788659	17.21	731119	19.75
ZZZZZZ	247082	5.83	917076	7.17	465023	9.67	767257	12.21	675145	17.19	631847	19.74
ZZZZZZ	264943	5.83	981407	7.17	487666	9.67	809096	12.21	702523	17.19	632100	19.74
ZZZZZZ	258274	5.83	965175	7.17	484318	9.67	791603	12.21	687327	17.19	622567	19.74
ZZZZZZ	232860	5.83	873207	7.17	447155	9.67	747819	12.21	653918	17.19	601004	19.74
M97347-2	244343	5.83	922740	7.17	460954	9.67	758191	12.22	660731	17.19	579604	19.74
M97347-3	246163	5.83	926909	7.17	462415	9.67	763454	12.21	656129	17.19	588324	19.74
ZZZZZZ	234573	5.83	891727	7.17	455255	9.67	745866	12.21	669674	17.19	596765	19.74

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: M97347
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Check Std:	MSS888-CC884	Injection Date:	02/02/11
Lab File ID:	S21213.D	Injection Time:	12:54
Instrument ID:	GCMSS	Method:	SW846 8270C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	163195	5.72	636245	7.07	303706	9.25	456723	11.44	428438	15.79	414759	18.02
Upper Limit [a]	326390	6.22	1272490	7.57	607412	9.75	913446	11.94	856876	16.29	829518	18.52
Lower Limit [b]	81598	5.22	318123	6.57	151853	8.75	228362	10.94	214219	15.29	207380	17.52
Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
ZZZZZZ	153876	5.72	644200	7.07	311817	9.25	478355	11.43	432471	15.78	430786	18.02
M97347-4	188231	5.72	756203	7.07	372070	9.25	547151	11.43	468631	15.79	448103	18.02
M97347-5	180844	5.72	744597	7.07	363502	9.25	554158	11.43	492731	15.79	481183	18.02
M97347-6	133383	5.72	556129	7.07	267158	9.25	412175	11.43	367456	15.78	359904	18.02
ZZZZZZ	196045	5.72	805982	7.07	391757	9.25	581409	11.43	491353	15.79	471756	18.02
ZZZZZZ	187772	5.72	778262	7.07	373597	9.25	562799	11.43	507506	15.79	488668	18.02
ZZZZZZ	197713	5.72	822333	7.07	397650	9.25	609042	11.43	538695	15.79	522884	18.02
ZZZZZZ	186149	5.72	752311	7.07	368481	9.25	561793	11.43	508037	15.79	496618	18.02
ZZZZZZ	194109	5.72	798381	7.07	394050	9.25	590743	11.43	529269	15.78	507312	18.02
OP23982-MS	173864	5.72	665027	7.07	319891	9.25	478058	11.44	428244	15.79	429183	18.02
OP23982-MSD	174057	5.72	677142	7.07	323062	9.25	487152	11.43	441664	15.79	437928	18.02
ZZZZZZ	172579	5.72	702657	7.07	341221	9.25	531801	11.43	462993	15.78	468300	18.02
M97427-2	171997	5.72	701838	7.07	343974	9.25	521496	11.43	464968	15.78	458609	18.02
ZZZZZZ	178896	5.72	714774	7.07	351291	9.25	547595	11.43	461989	15.78	464311	18.02
ZZZZZZ	181307	5.72	744551	7.07	356081	9.25	547214	11.43	487837	15.78	480694	18.02
ZZZZZZ	185150	5.72	769476	7.06	368321	9.25	552772	11.43	509251	15.78	488099	18.01
OP23963-MB	223635	5.72	904117	7.06	444024	9.25	667369	11.43	570705	15.78	517933	18.01
OP23963-BS	186914	5.72	726279	7.07	342642	9.25	512609	11.43	449976	15.78	399841	18.02
OP23963-MS	183005	5.72	707658	7.06	332292	9.25	481805	11.43	405146	15.78	365992	18.01
OP23963-MSD	207483	5.72	810349	7.07	400003	9.25	602490	11.43	496412	15.78	458168	18.02
M97350-10	202524	5.72	844111	7.06	400402	9.25	594470	11.43	502754	15.78	475366	18.01

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Surrogate Recovery Summary

Job Number: M97347
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Method: SW846 8270C Matrix: AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
M97347-2	I70233.D	37.0	23.0	69.0	68.0	70.0	75.0
M97347-3	I70234.D	40.0	24.0	73.0	72.0	75.0	85.0
M97347-4	S21215.D	38.0	23.0	87.0	72.0	74.0	77.0
M97347-5	S21216.D	38.0	23.0	87.0	78.0	78.0	85.0
M97347-6	S21217.D	38.0	22.0	84.0	75.0	77.0	84.0
OP23942-BS	I70222.D	50.0	32.0	78.0	83.0	81.0	85.0
OP23942-MB	I70221.D	43.0	26.0	65.0	74.0	73.0	82.0
OP23942-MS	I70223.D	49.0	31.0	78.0	84.0	82.0	86.0
OP23942-MSD	I70224.D	49.0	31.0	76.0	80.0	78.0	85.0

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	15-110%
S2 = Phenol-d5	15-110%
S3 = 2,4,6-Tribromophenol	15-110%
S4 = Nitrobenzene-d5	30-130%
S5 = 2-Fluorobiphenyl	30-130%
S6 = Terphenyl-d14	30-130%

Roxana Groundwater Quarterly – 1st Quarter 2011

Laboratory SDG: M97395

Data Reviewer: Wendy Buchman

Peer Reviewer: Elizabeth Kunkel

Date Reviewed: 2/24/2011

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review 2008

Sample Identification	Sample Identification
TB-ROX-012411	MW12-ROX-012411
MW11-ROX-012411	MW10-ROX-012411
MW10-ROX-012411DUP	P54-ROX-012411
MW13-ROX-012511EB	MW13-ROX-012511
MW7-ROX-012511	MW8-ROX-012511
MW8-ROX-012511DUP	

1.0 Data Package Completeness

Were all items delivered as specified in the QAPP and COC as appropriate?

Yes

2.0 Laboratory Case Narrative \ Cooler Receipt Form

Were problems noted in the laboratory case narrative or cooler receipt form?

Yes, the laboratory case narrative indicated VOC and SVOC LCS/LCSD recoveries were outside evaluation criteria. VOC MS/MSD recoveries and MS/MSD RPDs were outside of evaluation criteria. VOC surrogate recoveries were outside evaluation criteria in samples MW7-ROX-012511, MW8-ROX-012511 and MW8-ROX-012511DUP. Internal standard recoveries for samples MW8-ROX-012511 and MW8-ROX-012511DUP were outside of evaluation criteria. Although not indicated in the laboratory case narrative, acetone and methylene chloride were detected in the trip blank; benzene and methyl tert-butyl ether were detected in the equipment blank. Bromomethane and diethyl phthalate were detected in the method blank. The compound phenol was qualified in field duplicate pair MW8-ROX-012511/MW8-ROX-012511DUP due to field duplicate RPD outside evaluation criteria. In addition several samples were diluted due to high levels of target analytes. The compounds benzene and/or toluene exceeded calibration range in samples MW7-ROX-012511 and field duplicates MW8-ROX-012511/MW8-ROX-012511DUP; these samples were rerun at dilution and reported from the second run; other compounds, except for toluene in the field duplicate sample which exceeded calibration range in the diluted run, were reported from the original analysis. These issues are addressed further in the appropriate sections below.

The cooler receipt form indicated samples were received by the laboratory at 1.9ºC which was outside the 4ºC ± 2ºC criteria. The samples were received in good condition; therefore, no qualification of data was required.

3.0 Holding Times

Were samples extracted/analyzed within applicable limits?

Yes

4.0 Blank Contamination

Were any analytes detected in the Method Blanks, Field Blanks or Trip Blanks?

Yes. The following table summarizes analytes detected in sample-associated blanks.

Blank ID	Parameter	Analyte	Concentration/ Amount
TB-ROX-012411	VOCs	Acetone	11.8 µg/L
TB-ROX-012411	VOCs	Methylene chloride	3.7 µg/L
MW-13-ROX-012511EB	VOCs	Benzene	2.1 µg/L
MW-13-ROX-012511EB	VOCs	Methyl Tert Butyl Ether	2.1 µg/L
MSL1644-MB	VOCs	Bromomethane	12.0 µg/L
OP23969-MB	VOCs	Diethyl phthalate	0.63 µg/L

Qualifications due to blank contamination are included in the table below. Analytical data that were reported non-detect or at concentrations greater than five times (5X) the associated blank concentration (10X for common laboratory contaminants) did not require qualification.

Sample ID	Parameter	Analyte	New Reporting Limit (RL)	Qualification
MW12-ROX-012411	SVOCs	Diethyl phthalate	-	**U**
MW-11-ROX-012411	SVOCs	Diethyl phthalate	-	**U**
MW10-ROX-012411	VOCs	Acetone	12.2	**U**
MW10-ROX-012411	SVOCs	Diethyl phthalate	-	**U**
MW10-ROX-012411DUP	SVOCs	Diethyl phthalate	-	**U**
P54-ROX-012411	VOCs	Acetone	-	**U**
P54-ROX-012411	VOCs	Benzene	-	**U**
P54-ROX-012411	SVOCs	Diethyl phthalate	-	**U**
MW13-ROX-012511	SVOCs	Diethyl phthalate	-	**U**
MW7-ROX-012511	VOCs	Methyl Tert Butyl Ether	5.7	**U**
MW7-ROX-012511	SVOCs	Diethyl phthalate	-	**U**
MW8-ROX-012511	VOCs	Acetone	46.9	**U**
MW8-ROX-012511	SVOCs	Diethyl phthalate	-	**U**
MW8-ROX-012511DUP	VOCs	Acetone	40.3	**U**

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

No

LCS/ LCSD ID	Parameter	Analyte	LCS/LCSD Recovery	RPD	LCS/LCSD/ RPD Criteria
MSG4155-BS	VOCs	Dichlorodifluoromethane	**67**	NA	*70-130*
MSL1644-BS/BSD	VOCs	2-Butanone	**132**/117	12	*70-130/25*
MSL1644-BS/BSD	VOCs	4-Methyl-2-pentanone	**142**/**146**	3	*70-130/25*
OP23969-BS	SVOCs	Aniline	**39**	NA	*40-140*
OP23969-BS	SVOCs	4-Chloroaniline	**34**	NA	*40-140*
OP23969-BS	SVOCs	Hexachlorocyclopentadiene	**31**	NA	*40-140*

Analytical data that required qualification based on LCS data are included in the table below. Analytical data reported as non-detect and associated with LCS recoveries above evaluation criteria, indicating a possible high bias, did not require qualification.

Sample ID	Parameter	Analyte	Qualification
MW12-ROX-012411	SVOCs	Aniline	**UJ**
MW12-ROX-012411	SVOCs	4-Chloroaniline	**UJ**
MW12-ROX-012411	SVOCs	Hexachlorocyclopentadiene	**UJ**
MW11-ROX-012411	SVOCs	Aniline	**UJ**
MW11-ROX-012411	SVOCs	4-Chloroaniline	**UJ**
MW11-ROX-012411	SVOCs	Hexachlorocyclopentadiene	**UJ**
MW10-ROX-012411	SVOCs	Aniline	**UJ**
MW10-ROX-012411	SVOCs	4-Chloroaniline	**UJ**
MW10-ROX-012411	SVOCs	Hexachlorocyclopentadiene	**UJ**
MW10-ROX-012411DUP	SVOCs	Aniline	**UJ**
MW10-ROX-012411DUP	SVOCs	4-Chloroaniline	**UJ**
MW10-ROX-012411DUP	SVOCs	Hexachlorocyclopentadiene	**UJ**
P54-ROX-012411	SVOCs	Aniline	**UJ**
P54-ROX-012411	SVOCs	4-Chloroaniline	**UJ**
P54-ROX-012411	SVOCs	Hexachlorocyclopentadiene	**UJ**
MW-13-ROX-012511	SVOCs	Aniline	**UJ**
MW-13-ROX-012511	SVOCs	4-Chloroaniline	**UJ**
MW-13-ROX-012511	SVOCs	Hexachlorocyclopentadiene	**UJ**
MW7-ROX-012511	SVOCs	Aniline	**UJ**
MW7-ROX-012511	SVOCs	4-Chloroaniline	**UJ**
MW7-ROX-012511	SVOCs	Hexachlorocyclopentadiene	**UJ**
MW8-ROX-12511	SVOCs	Aniline	**UJ**
MW8-ROX-12511	SVOCs	4-Chloroaniline	**UJ**

Sample ID	Parameter	Analyte	Qualification
MW8-ROX-12511	SVOCs	Hexachlorocyclopentadiene	**UJ**
MW8-ROX-12511DUP	SVOCs	Aniline	**UJ**
MW8-ROX-12511DUP	SVOCs	4-Chloroaniline	**UJ**
MW8-ROX-12511DUP	SVOCs	Hexachlorocyclopentadiene	**UJ**

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

No

Sample ID	Parameter	Surrogate	Recovery	Criteria
MW7-ROX-012511	VOCs	Dibromofluoromethane	**38**	70-130
MW7-ROX-012511	VOCs	Toluene-D8	**149**	70-130
MW8-ROX-012511	VOCs	Dibromofluoromethane	**38**	70-130
MW8-ROX-012511	VOCs	Toluene-D8	**269**	70-130
MW8-ROX-012511DUP	VOCs	Toluene-D8	**257**	70-130

Analytical data that required qualification based on surrogate data are included in the table below. Analytical data reported as non-detect and associated with surrogate recoveries above evaluation criteria, indicating a possible high bias, did not require qualification.

Sample ID	Parameter	Analyte	Qualification
MW7-ROX-012511	VOCs	All VOC detects/nondetects	**J/UJ**
MW8-ROX-012511	VOCs	All VOC detects/nondetects	**J/UJ**
MW8-ROX-012511DUP	VOCs	All VOC detects	**J**

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

Were MS/MSD samples analyzed as part of this SDG?

Yes. Sample MW12-ROX-012411 was spiked and analyzed for VOCs.

Were MS/MSD recoveries within evaluation criteria?

No

MS/MSD ID	Parameter	Analyte	MS/MSD Recovery (%)	RPD (%)	MS/MSD/RPD Criteria (%)
MW12-ROX-012411	VOCs	Benzene	**766**/**456**	51	70-130/30
MW12-ROX-012411	VOCs	Methyl Tert Butyl Ether	**69**/**67**	7	70-130/30
MW12-ROX-012411	VOCs	Vinyl Acetate	71/**69**	2	70-130/30

Analytical results reported as nondetect and associated with MS/MSD recoveries above evaluation criteria, indicating a high bias, did not require qualification. USEPA National Functional Guidelines for Organic Data Review indicates that organic data does not require qualification based on MS/MSD data alone. LCS recoveries for Methyl Tert Butyl Ether and Vinyl Acetate were within evaluation criteria, therefore no qualification of data was required.

8.0 Internal Standard (IS) Recoveries

Were internal standard area recoveries within evaluation criteria?

No

Sample ID	Parameter	Analyte	IS Area Recovery	IS Criteria
MW8-ROX-012511-Run#1	VOCs	1,4-difluorobenzene	**70927**	90905-363618
MW8-ROX-012511DUP-Run#1	VOCs	1,4-difluorobenzene	**84425**	90905-363618

Analytical data that required qualification based on IS data are included in the table below. The compounds benzene and toluene exceeded calibration range in the original run. Benzene was within calibration range in the second run, however toluene was not. Benzene was reported from the second run and toluene was reported from the first run. All VOC detects reported from the first run were qualified estimated detect (**J**), therefore toluene was included with the J-qualified results and did not require further qualification.

Sample ID	Parameter	Analyte	Qualification
MW8-ROX-012511-Run#1	VOCs	All VOC detects/non-detects	**J/UJ**
MW8-ROX-012511DUP-Run#1	VOCs	All VOC detects/non-detects	**J/UJ**

9.0 Laboratory Duplicate Results

Were laboratory duplicate samples collected as part of this SDG?

No

10.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

Yes

Field ID	Field Duplicate ID
MW10-ROX-012411	MW10-ROX-012411DUP
MW8-ROX-012511	MW8-ROX-012511DUP

Were field duplicates within evaluation criteria?

No

Field ID	Field Duplicate ID	Analyte	RPD (%)	Qualification
MW8-ROX-012511	MW8-ROX-012511DUP	Phenol	**36**	**J**

11.0 Sample Dilutions

For samples that were diluted and nondetect, were undiluted results also reported?

Not applicable; analytes were reported in samples that were diluted.

12.0 Additional Qualifications

Were additional qualifications applied?

No

New England ACCUTEST LABORATORIES

03/08/11

Technical Report for

Shell Oil

URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

SAP#340061

Accutest Job Number: M97395

Sampling Dates: 01/24/11 - 01/25/11

Report to:

URS Corporation

Elizabeth_Kunkel@URSCorp.com

ATTN: Elizabeth Kunkel

Reviewed on 3/8/2011

Total number of pages in report: **98**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Reza Pand
Lab Director

Client Service contact: Kristen Blanchard 508-481-6200

Certifications: MA (M-MA136,SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) ME (MA00136) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO MN (11546AA) NC (653) IL (002337) ISO 17025:2005 (L2235)

Test results relate only to samples analyzed.

Sections: 1 2 3 4 5 6

Table of Contents

Sample Summary

Shell Oil

Job No: M97395

URSMOSTL:97216640 170 East Rand Avenue Hartford, IL
Project No: SAP#340061

Sample Number	Collected Date	Time By	Received	Matrix Code	Matrix Type	Client Sample ID
M97395-1	01/24/11	00:00	01/26/11	AQ	Trip Blank Water	TB-ROX-012411
M97395-2	01/24/11	10:00	01/26/11	AQ	Ground Water	MW12-ROX-012411
M97395-2D	01/24/11	10:00	01/26/11	AQ	Water Dup/MSD	MW12-ROX-012411
M97395-2S	01/24/11	10:00	01/26/11	AQ	Water Matrix Spike	MW12-ROX-012411
M97395-3	01/24/11	11:35	01/26/11	AQ	Ground Water	MW11-ROX-012411
M97395-4	01/24/11	12:50	01/26/11	AQ	Ground Water	MW10-ROX-012411
M97395-5	01/24/11	12:50	01/26/11	AQ	Ground Water	MW10-ROX-012411DUP
M97395-6	01/24/11	14:55	01/26/11	AQ	Ground Water	P54-ROX-012411
M97395-7	01/25/11	08:00	01/26/11	AQ	Equipment Blank	MW13-ROX-012511EB
M97395-8	01/25/11	11:10	01/26/11	AQ	Ground Water	MW13-ROX-012511
M97395-9	01/25/11	14:35	01/26/11	AQ	Ground Water	MW7-ROX-012511
M97395-10	01/25/11	13:25	01/26/11	AQ	Ground Water	MW8-ROX-012511
M97395-11	01/25/11	13:25	01/26/11	AQ	Ground Water	MW8-ROX-012511 DUP

ACCUTEST Laboratories

2

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	Shell Oil	Job No	M97395
Site:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL	Report Date	2/10/2011 12:46:38 PM

10 Sample(s), 1 Trip Blank(s) and 0 Field Blank(s) were collected on between 01/24/2011 and 01/25/2011 and were received at Accutest on 01/26/2011 properly preserved, at 1.9 Deg. C and intact. These Samples received an Accutest job number of M97395. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix AQ Batch ID: MSG4155

- All samples were analyzed within the recommended method holding time.
- Sample(s) M97501-3MS, M97501-3MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Blank Spike Recovery(s) for Dichlorodifluoromethane are outside control limits. Blank Spike meets program technical requirements.

Matrix AQ Batch ID: MSL1644

- All samples were analyzed within the recommended method holding time.
- Sample(s) M97395-2MS, M97395-2MSD were used as the QC samples indicated.
- Sample(s) M97395-1 have compound(s) reported with a "B" qualifier, indicating analyte is found in the associated method blank.
- Blank Spike Recovery(s) for 2-Butanone (MEK), 4-Methyl-2-pentanone (MIBK) are outside control limits. Associated samples are non-detect for this compound.
- Matrix Spike Recovery(s) for Methyl Tert Butyl Ether are outside control limits. Outside control limits due to possible matrix interference. Refer to Blank Spike.
- Matrix Spike Duplicate Recovery(s) for Methyl Tert Butyl Ether, Vinyl Acetate are outside control limits. Outside control limits due to possible matrix interference. Refer to Blank Spike.
- RPD(s) for MSD for Benzene are outside control limits for sample M97395-2MSD. High RPD due to possible matrix interference and/or sample non-homogeneity.
- Blank Spike Duplicate Recovery(s) for 4-Methyl-2-pentanone (MIBK) are outside control limits. Associated samples are non-detect for this compound.
- MSL1644-BS for 4-Methyl-2-pentanone (MIBK): Outside control limits. Associated samples are non-detect for this compound.
- M97395-11 for Toluene-D8: Outside control limits due to possible matrix interference. Confirmed by reanalysis.
- M97395-9, 10 for Dibromofluoromethane, Toluene-D8: Outside control limits due to possible matrix interference. Confirmed by reanalysis.
- M97395-2MS/2MSD for Benzene: Outside control limits due to possible sample carryover.
- M97395-10, 11 has internal standards outside control limits due to possible matrix interference. Confirmed by reanalysis.

Matrix AQ Batch ID: MSN1863

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M97571-1MS, M97571-1MSD were used as the QC samples indicated.

Extractables by GCMS By Method SW846 8270C

Matrix AQ	Batch ID: OP23969

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- Sample(s) M97395-2MS, M97395-2MSD were used as the QC samples indicated.
- Sample(s) M97395-10, M97395-2, M97395-3, M97395-4, M97395-5, M97395-6, M97395-7, M97395-8, M97395-9 have compound(s) reported with a "B" qualifier, indicating analyte is found in the associated method blank.
- Blank Spike Recovery(s) for 4-Chloroaniline, Aniline, Hexachlorocyclopentadiene are outside control limits. Blank Spike meets program technical requirements.
- Matrix Spike Recovery(s) for 4-Chloroaniline are outside control limits. Outside control limits due to possible matrix interference. Refer to Blank Spike.
- Matrix Spike Duplicate Recovery(s) for 4-Chloroaniline, Aniline are outside control limits. Outside control limits due to possible matrix interference. Refer to Blank Spike.
- OP23969-MS/MSD for 3,3'-Dichlorobenzidine, Hexachlorocyclopentadiene: Outside control limits. Blank Spike meets program technical requirements.

The Accutest Laboratories of New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety.The Accutest Laboratories of NE, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report(M97395).

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	TB-ROX-012411		
Lab Sample ID:	M97395-1	Date Sampled:	01/24/11
Matrix:	AQ - Trip Blank Water	Date Received:	01/26/11
Method:	SW846 8260B	Percent Solids:	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L49358.D	1	02/03/11	AMY	n/a	n/a	MSL1644
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	11.8	5.0	4.6	ug/l	
71-43-2	Benzene	ND	0.50	0.35	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.52	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.91	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.62	ug/l	
75-25-2	Bromoform	ND	1.0	0.73	ug/l	
74-83-9	Bromomethane	11.7	2.0	0.95	ug/l	B
78-93-3	2-Butanone (MEK)	ND	5.0	2.1	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.49	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.37	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.53	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.35	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.42	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.61	ug/l	
75-00-3	Chloroethane	ND	2.0	0.76	ug/l	
67-66-3	Chloroform	ND	1.0	0.72	ug/l	
74-87-3	Chloromethane	ND	2.0	0.81	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.58	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.67	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.3	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.86	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.76	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.74	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.77	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.81	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.61	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.63	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.74	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.70	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.66	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.74	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.83	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-ROX-012411		
Lab Sample ID:	M97395-1	Date Sampled:	01/24/11
Matrix:	AQ - Trip Blank Water	Date Received:	01/26/11
Method:	SW846 8260B	Percent Solids:	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.73	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.44	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.34	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.23	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.61	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.56	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.5	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.51	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.45	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.54	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.3	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.94	ug/l	
75-09-2	Methylene chloride	3.7	2.0	0.75	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.43	ug/l	
100-42-5	Styrene	ND	5.0	0.68	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.64	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.89	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.39	ug/l	
108-88-3	Toluene	ND	1.0	0.74	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.57	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.35	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.72	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.49	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.47	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.61	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.62	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.51	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.51	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.86	ug/l	
	m,p-Xylene	ND	1.0	0.62	ug/l	
95-47-6	o-Xylene	ND	1.0	0.56	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		70-130%
2037-26-5	Toluene-D8	99%		70-130%
460-00-4	4-Bromofluorobenzene	89%		70-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW12-ROX-012411		
Lab Sample ID:	M97395-2	Date Sampled:	01/24/11
Matrix:	AQ - Ground Water	Date Received:	01/26/11
Method:	SW846 8260B	Percent Solids:	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L49366.D	1	02/03/11	AMY	n/a	n/a	MSL1644
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	4.6	ug/l	
71-43-2	Benzene	ND	0.50	0.35	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.52	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.91	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.62	ug/l	
75-25-2	Bromoform	ND	1.0	0.73	ug/l	
74-83-9	Bromomethane	ND	2.0	0.95	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.1	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.49	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.37	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.53	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.35	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.42	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.61	ug/l	
75-00-3	Chloroethane	ND	2.0	0.76	ug/l	
67-66-3	Chloroform	ND	1.0	0.72	ug/l	
74-87-3	Chloromethane	ND	2.0	0.81	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.58	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.67	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.3	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.86	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.76	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.74	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.77	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.81	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.61	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.63	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.74	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.70	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.66	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.74	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.83	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW12-ROX-012411		
Lab Sample ID:	M97395-2	Date Sampled:	01/24/11
Matrix:	AQ - Ground Water	Date Received:	01/26/11
Method:	SW846 8260B	Percent Solids:	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.73	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.44	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.34	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.23	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.61	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.56	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.5	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.51	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.45	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.54	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.3	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.94	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.75	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.43	ug/l	
100-42-5	Styrene	ND	5.0	0.68	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.64	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.89	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.39	ug/l	
108-88-3	Toluene	ND	1.0	0.74	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.57	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.35	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.72	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.49	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.47	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.61	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.62	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.51	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.51	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.86	ug/l	
	m,p-Xylene	ND	1.0	0.62	ug/l	
95-47-6	o-Xylene	ND	1.0	0.56	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		70-130%
2037-26-5	Toluene-D8	100%		70-130%
460-00-4	4-Bromofluorobenzene	91%		70-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW12-ROX-012411		
Lab Sample ID:	M97395-2	Date Sampled:	01/24/11
Matrix:	AQ - Ground Water	Date Received:	01/26/11
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S21267.D	1	02/04/11	PR	01/27/11	OP23969	MSS890
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	10	0.77	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	0.68	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.57	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.69	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	2.2	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	2.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	5.0	ug/l	
95-48-7	2-Methylphenol	ND	10	0.48	ug/l	
	3&4-Methylphenol	ND	10	0.63	ug/l	
88-75-5	2-Nitrophenol	ND	10	0.66	ug/l	
100-02-7	4-Nitrophenol	ND	20	5.0	ug/l	
87-86-5	Pentachlorophenol	ND	10	3.3	ug/l	
108-95-2	Phenol	ND	5.0	2.1	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.40	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.38	ug/l	
83-32-9	Acenaphthene	ND	5.0	0.34	ug/l	
208-96-8	Acenaphthylene	ND	5.0	1.3	ug/l	
62-53-3	Aniline	ND	10	0.46	ug/l	"UJ"
120-12-7	Anthracene	ND	5.0	0.27	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	0.27	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	0.23	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	0.27	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	0.61	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	0.29	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	0.32	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	0.41	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.31	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.58	ug/l	"UJ"
218-01-9	Chrysene	ND	5.0	0.22	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	0.35	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	0.23	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	0.21	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW12-ROX-012411		
Lab Sample ID:	M97395-2	Date Sampled:	01/24/11
Matrix:	AQ - Ground Water	Date Received:	01/26/11
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

ABN PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	0.61	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	1.3	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.34	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	2.5	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	0.25	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.32	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	0.34	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	0.34	ug/l	
84-66-2	Diethyl phthalate	~~0.770~~ ND	5.0	0.61	ug/l	~~JB~~ "U"
131-11-3	Dimethyl phthalate	ND	5.0	1.3	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.49	ug/l	
206-44-0	Fluoranthene	ND	5.0	0.22	ug/l	
86-73-7	Fluorene	ND	5.0	0.29	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	0.16	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	2.5	ug/l	"U"
67-72-1	Hexachloroethane	ND	5.0	0.43	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	0.29	ug/l	
78-59-1	Isophorone	ND	5.0	0.47	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	0.31	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.33	ug/l	
99-09-2	3-Nitroaniline	ND	10	0.32	ug/l	
100-01-6	4-Nitroaniline	ND	10	0.33	ug/l	
91-20-3	Naphthalene	ND	5.0	0.33	ug/l	
98-95-3	Nitrobenzene	ND	5.0	0.31	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	0.41	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.61	ug/l	
85-01-8	Phenanthrene	ND	5.0	0.26	ug/l	
129-00-0	Pyrene	ND	5.0	0.25	ug/l	
110-86-1	Pyridine	ND	10	0.50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	45%		15-110%
4165-62-2	Phenol-d5	30%		15-110%
118-79-6	2,4,6-Tribromophenol	79%		15-110%
4165-60-0	Nitrobenzene-d5	77%		30-130%
321-60-8	2-Fluorobiphenyl	77%		30-130%
1718-51-0	Terphenyl-d14	65%		30-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW11-ROX-012411		
Lab Sample ID:	M97395-3	Date Sampled:	01/24/11
Matrix:	AQ - Ground Water	Date Received:	01/26/11
Method:	SW846 8260B	Percent Solids:	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L49367.D	1	02/03/11	AMY	n/a	n/a	MSL1644
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	4.6	ug/l	
71-43-2	Benzene	ND	0.50	0.35	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.52	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.91	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.62	ug/l	
75-25-2	Bromoform	ND	1.0	0.73	ug/l	
74-83-9	Bromomethane	ND	2.0	0.95	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.1	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.49	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.37	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.53	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.35	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.42	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.61	ug/l	
75-00-3	Chloroethane	ND	2.0	0.76	ug/l	
67-66-3	Chloroform	ND	1.0	0.72	ug/l	
74-87-3	Chloromethane	ND	2.0	0.81	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.58	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.67	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.3	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.86	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.76	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.74	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.77	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.81	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.61	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.63	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.74	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.70	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.66	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.74	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.83	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW11-ROX-012411		
Lab Sample ID:	M97395-3	Date Sampled:	01/24/11
Matrix:	AQ - Ground Water	Date Received:	01/26/11
Method:	SW846 8260B	Percent Solids:	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.73	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.44	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.34	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.23	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.61	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.56	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.5	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.51	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.45	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.54	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.3	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.94	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.75	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.43	ug/l	
100-42-5	Styrene	ND	5.0	0.68	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.64	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.89	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.39	ug/l	
108-88-3	Toluene	ND	1.0	0.74	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.57	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.35	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.72	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.49	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.47	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.61	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.62	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.51	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.51	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.86	ug/l	
	m,p-Xylene	ND	1.0	0.62	ug/l	
95-47-6	o-Xylene	ND	1.0	0.56	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		70-130%
2037-26-5	Toluene-D8	100%		70-130%
460-00-4	4-Bromofluorobenzene	95%		70-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW11-ROX-012411		
Lab Sample ID:	M97395-3	Date Sampled:	01/24/11
Matrix:	AQ - Ground Water	Date Received:	01/26/11
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S21268.D	1	02/04/11	PR	01/27/11	OP23969	MSS890
Run #2							

	Initial Volume	Final Volume
Run #1	960 ml	1.0 ml
Run #2		

ABN PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	10	0.80	ug/l	
95-57-8	2-Chlorophenol	ND	5.2	0.71	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.60	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.72	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	2.2	ug/l	
51-28-5	2,4-Dinitrophenol	ND	21	2.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	5.2	ug/l	
95-48-7	2-Methylphenol	ND	10	0.50	ug/l	
	3&4-Methylphenol	ND	10	0.66	ug/l	
88-75-5	2-Nitrophenol	ND	10	0.69	ug/l	
100-02-7	4-Nitrophenol	ND	21	5.2	ug/l	
87-86-5	Pentachlorophenol	ND	10	3.4	ug/l	
108-95-2	Phenol	ND	5.2	2.1	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.42	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.39	ug/l	
83-32-9	Acenaphthene	ND	5.2	0.35	ug/l	
208-96-8	Acenaphthylene	ND	5.2	1.3	ug/l	
62-53-3	Aniline	ND	10	0.47	ug/l	"UJ"
120-12-7	Anthracene	ND	5.2	0.28	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.2	0.28	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.2	0.24	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.2	0.28	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.2	0.64	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.2	0.31	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.2	0.33	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.2	0.43	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.2	0.32	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.60	ug/l	"UJ"
218-01-9	Chrysene	ND	5.2	0.23	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.2	0.37	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.2	0.24	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.2	0.22	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW11-ROX-012411		
Lab Sample ID:	M97395-3	Date Sampled:	01/24/11
Matrix:	AQ - Ground Water	Date Received:	01/26/11
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

ABN PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.2	0.64	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	1.3	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.35	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.2	2.6	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.2	0.26	ug/l	
132-64-9	Dibenzofuran	ND	5.2	0.33	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.2	0.35	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.2	0.35	ug/l	
84-66-2	Diethyl phthalate	~~1.0~~ 0.40 ND	5.2	0.64	ug/l	~~JB~~ "U"
131-11-3	Dimethyl phthalate	ND	5.2	1.3	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	0.73	2.1	0.51	ug/l	J
206-44-0	Fluoranthene	ND	5.2	0.23	ug/l	
86-73-7	Fluorene	ND	5.2	0.30	ug/l	
118-74-1	Hexachlorobenzene	ND	5.2	0.16	ug/l	"UJ"
77-47-4	Hexachlorocyclopentadiene	ND	10	2.6	ug/l	
67-72-1	Hexachloroethane	ND	5.2	0.45	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.2	0.30	ug/l	
78-59-1	Isophorone	ND	5.2	0.49	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.2	0.32	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.35	ug/l	
99-09-2	3-Nitroaniline	ND	10	0.34	ug/l	
100-01-6	4-Nitroaniline	ND	10	0.35	ug/l	
91-20-3	Naphthalene	ND	5.2	0.34	ug/l	
98-95-3	Nitrobenzene	ND	5.2	0.32	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.2	0.42	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.2	0.64	ug/l	
85-01-8	Phenanthrene	ND	5.2	0.27	ug/l	
129-00-0	Pyrene	ND	5.2	0.26	ug/l	
110-86-1	Pyridine	ND	10	0.52	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	43%		15-110%
4165-62-2	Phenol-d5	33%		15-110%
118-79-6	2,4,6-Tribromophenol	71%		15-110%
4165-60-0	Nitrobenzene-d5	82%		30-130%
321-60-8	2-Fluorobiphenyl	79%		30-130%
1718-51-0	Terphenyl-d14	77%		30-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW10-ROX-012411		
Lab Sample ID:	M97395-4	Date Sampled:	01/24/11
Matrix:	AQ - Ground Water	Date Received:	01/26/11
Method:	SW846 8260B	Percent Solids:	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L49368.D	1	02/03/11	AMY	n/a	n/a	MSL1644
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	~~12.2~~ ND	5.0	4.6	ug/l	"U"
71-43-2	Benzene	ND	0.50	0.35	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.52	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.91	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.62	ug/l	
75-25-2	Bromoform	ND	1.0	0.73	ug/l	
74-83-9	Bromomethane	ND	2.0	0.95	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.1	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.49	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.37	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.53	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.35	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.42	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.61	ug/l	
75-00-3	Chloroethane	ND	2.0	0.76	ug/l	
67-66-3	Chloroform	ND	1.0	0.72	ug/l	
74-87-3	Chloromethane	ND	2.0	0.81	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.58	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.67	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.3	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.86	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.76	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.74	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.77	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.81	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.61	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.63	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.74	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.70	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.66	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.74	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.83	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW10-ROX-012411		
Lab Sample ID:	M97395-4	Date Sampled:	01/24/11
Matrix:	AQ - Ground Water	Date Received:	01/26/11
Method:	SW846 8260B	Percent Solids:	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.73	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.44	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.34	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.23	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.61	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.56	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.5	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.51	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.45	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.54	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.3	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.94	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.75	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.43	ug/l	
100-42-5	Styrene	ND	5.0	0.68	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.64	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.89	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.39	ug/l	
108-88-3	Toluene	ND	1.0	0.74	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.57	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.35	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.72	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.49	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.47	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.61	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.62	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.51	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.51	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.86	ug/l	
	m,p-Xylene	ND	1.0	0.62	ug/l	
95-47-6	o-Xylene	ND	1.0	0.56	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		70-130%
2037-26-5	Toluene-D8	102%		70-130%
460-00-4	4-Bromofluorobenzene	94%		70-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW10-ROX-012411		
Lab Sample ID:	M97395-4	Date Sampled:	01/24/11
Matrix:	AQ - Ground Water	Date Received:	01/26/11
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S21269.D	1	02/04/11	PR	01/27/11	OP23969	MSS890
Run #2							

	Initial Volume	Final Volume
Run #1	980 ml	1.0 ml
Run #2		

ABN PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	10	0.79	ug/l	
95-57-8	2-Chlorophenol	ND	5.1	0.70	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.58	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.71	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	2.2	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	2.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	5.1	ug/l	
95-48-7	2-Methylphenol	ND	10	0.49	ug/l	
	3&4-Methylphenol	ND	10	0.64	ug/l	
88-75-5	2-Nitrophenol	ND	10	0.67	ug/l	
100-02-7	4-Nitrophenol	ND	20	5.1	ug/l	
87-86-5	Pentachlorophenol	ND	10	3.4	ug/l	
108-95-2	Phenol	ND	5.1	2.1	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.41	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.38	ug/l	
83-32-9	Acenaphthene	ND	5.1	0.34	ug/l	
208-96-8	Acenaphthylene	ND	5.1	1.3	ug/l	"UJ"
62-53-3	Aniline	ND	10	0.46	ug/l	
120-12-7	Anthracene	ND	5.1	0.28	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.1	0.28	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.1	0.23	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.1	0.28	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.1	0.62	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.1	0.30	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.1	0.33	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.1	0.42	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.1	0.31	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.59	ug/l	"UJ"
218-01-9	Chrysene	ND	5.1	0.23	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.1	0.36	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.1	0.24	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.1	0.21	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW10-ROX-012411		
Lab Sample ID:	M97395-4	Date Sampled:	01/24/11
Matrix:	AQ - Ground Water	Date Received:	01/26/11
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

ABN PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.1	0.62	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	1.3	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.34	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.1	2.6	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.1	0.25	ug/l	
132-64-9	Dibenzofuran	ND	5.1	0.32	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.1	0.34	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.1	0.34	ug/l	
84-66-2	Diethyl phthalate	~~1.00~~ ND	5.1	0.62	ug/l	~~JB~~ "U"
131-11-3	Dimethyl phthalate	ND	5.1	1.3	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	0.68	2.0	0.50	ug/l	J
206-44-0	Fluoranthene	ND	5.1	0.22	ug/l	
86-73-7	Fluorene	ND	5.1	0.30	ug/l	
118-74-1	Hexachlorobenzene	ND	5.1	0.16	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	2.6	ug/l	"U"
67-72-1	Hexachloroethane	ND	5.1	0.44	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.1	0.29	ug/l	
78-59-1	Isophorone	ND	5.1	0.48	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.1	0.31	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.34	ug/l	
99-09-2	3-Nitroaniline	ND	10	0.33	ug/l	
100-01-6	4-Nitroaniline	ND	10	0.34	ug/l	
91-20-3	Naphthalene	ND	5.1	0.33	ug/l	
98-95-3	Nitrobenzene	ND	5.1	0.31	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.1	0.41	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.1	0.62	ug/l	
85-01-8	Phenanthrene	ND	5.1	0.26	ug/l	
129-00-0	Pyrene	ND	5.1	0.25	ug/l	
110-86-1	Pyridine	ND	10	0.51	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	48%		15-110%
4165-62-2	Phenol-d5	31%		15-110%
118-79-6	2,4,6-Tribromophenol	90%		15-110%
4165-60-0	Nitrobenzene-d5	86%		30-130%
321-60-8	2-Fluorobiphenyl	81%		30-130%
1718-51-0	Terphenyl-d14	79%		30-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW10-ROX-012411DUP		
Lab Sample ID:	M97395-5	**Date Sampled:**	01/24/11
Matrix:	AQ - Ground Water	**Date Received:**	01/26/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L49369.D	1	02/03/11	AMY	n/a	n/a	MSL1644
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	4.6	ug/l	
71-43-2	Benzene	ND	0.50	0.35	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.52	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.91	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.62	ug/l	
75-25-2	Bromoform	ND	1.0	0.73	ug/l	
74-83-9	Bromomethane	ND	2.0	0.95	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.1	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.49	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.37	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.53	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.35	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.42	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.61	ug/l	
75-00-3	Chloroethane	ND	2.0	0.76	ug/l	
67-66-3	Chloroform	ND	1.0	0.72	ug/l	
74-87-3	Chloromethane	ND	2.0	0.81	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.58	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.67	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.3	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.86	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.76	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.74	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.77	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.81	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.61	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.63	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.74	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.70	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.66	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.74	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.83	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW10-ROX-012411DUP		
Lab Sample ID:	M97395-5	Date Sampled:	01/24/11
Matrix:	AQ - Ground Water	Date Received:	01/26/11
Method:	SW846 8260B	Percent Solids:	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.73	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.44	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.34	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.23	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.61	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.56	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.5	ug/l	
74-88-4	Iodomethane	ND	5.0	0.47	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.51	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.45	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.54	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.3	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.94	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.75	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.43	ug/l	
100-42-5	Styrene	ND	5.0	0.68	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.64	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.89	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.39	ug/l	
108-88-3	Toluene	ND	1.0	0.74	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.57	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.35	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.72	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.49	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.47	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.61	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.62	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.51	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.51	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.86	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.56	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	86%		70-130%
2037-26-5	Toluene-D8	101%		70-130%
460-00-4	4-Bromofluorobenzene	101%		70-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW10-ROX-012411DUP		
Lab Sample ID:	M97395-5	Date Sampled:	01/24/11
Matrix:	AQ - Ground Water	Date Received:	01/26/11
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S21270.D	1	02/04/11	PR	01/27/11	OP23969	MSS890
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	10	0.77	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	0.68	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.57	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.69	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	2.2	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	2.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	5.0	ug/l	
95-48-7	2-Methylphenol	ND	10	0.48	ug/l	
	3&4-Methylphenol	ND	10	0.63	ug/l	
88-75-5	2-Nitrophenol	ND	10	0.66	ug/l	
100-02-7	4-Nitrophenol	ND	20	5.0	ug/l	
87-86-5	Pentachlorophenol	ND	10	3.3	ug/l	
108-95-2	Phenol	ND	5.0	2.1	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.40	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.38	ug/l	
83-32-9	Acenaphthene	ND	5.0	0.34	ug/l	
208-96-8	Acenaphthylene	ND	5.0	1.3	ug/l	"UJ"
62-53-3	Aniline	ND	10	0.46	ug/l	
120-12-7	Anthracene	ND	5.0	0.27	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	0.27	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	0.23	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	0.27	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	0.61	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	0.29	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	0.32	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	0.41	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.31	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.58	ug/l	"UJ"
218-01-9	Chrysene	ND	5.0	0.22	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	0.35	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	0.23	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	0.21	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW10-ROX-012411DUP		
Lab Sample ID:	M97395-5	Date Sampled:	01/24/11
Matrix:	AQ - Ground Water	Date Received:	01/26/11
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

ABN PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	0.61	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	1.3	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.34	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	2.5	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	0.25	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.32	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	0.34	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	0.34	ug/l	
84-66-2	Diethyl phthalate	~~1.2~~ 0.6 ND	5.0	0.61	ug/l	~~JB~~ "U"
131-11-3	Dimethyl phthalate	ND	5.0	1.3	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	0.71	2.0	0.49	ug/l	J
206-44-0	Fluoranthene	ND	5.0	0.22	ug/l	
86-73-7	Fluorene	ND	5.0	0.29	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	0.16	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	2.5	ug/l	"U"
67-72-1	Hexachloroethane	ND	5.0	0.43	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	0.29	ug/l	
78-59-1	Isophorone	ND	5.0	0.47	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	0.31	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.33	ug/l	
99-09-2	3-Nitroaniline	ND	10	0.32	ug/l	
100-01-6	4-Nitroaniline	ND	10	0.33	ug/l	
91-20-3	Naphthalene	ND	5.0	0.33	ug/l	
98-95-3	Nitrobenzene	ND	5.0	0.31	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	0.41	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.61	ug/l	
85-01-8	Phenanthrene	ND	5.0	0.26	ug/l	
129-00-0	Pyrene	ND	5.0	0.25	ug/l	
110-86-1	Pyridine	ND	10	0.50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	46%		15-110%
4165-62-2	Phenol-d5	32%		15-110%
118-79-6	2,4,6-Tribromophenol	87%		15-110%
4165-60-0	Nitrobenzene-d5	81%		30-130%
321-60-8	2-Fluorobiphenyl	77%		30-130%
1718-51-0	Terphenyl-d14	77%		30-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P54-ROX-012411		
Lab Sample ID:	M97395-6	Date Sampled:	01/24/11
Matrix:	AQ - Ground Water	Date Received:	01/26/11
Method:	SW846 8260B	Percent Solids:	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G103080.D	1	02/07/11	EL	n/a	n/a	MSG4155
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	~~4.8~~ 0.0 ND	5.0	4.6	ug/l	U
71-43-2	Benzene	~~0.390~~ 0.0 ND	0.50	0.35	ug/l	U
108-86-1	Bromobenzene	ND	5.0	0.52	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.91	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.62	ug/l	
75-25-2	Bromoform	ND	1.0	0.73	ug/l	
74-83-9	Bromomethane	ND	2.0	0.95	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.1	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.49	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.37	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.53	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.35	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.42	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.61	ug/l	
75-00-3	Chloroethane	ND	2.0	0.76	ug/l	
67-66-3	Chloroform	ND	1.0	0.72	ug/l	
74-87-3	Chloromethane	ND	2.0	0.81	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.58	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.67	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.3	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.86	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.76	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.74	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.77	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.81	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.61	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.63	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.74	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.70	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.66	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.74	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.83	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P54-ROX-012411		
Lab Sample ID:	M97395-6	Date Sampled:	01/24/11
Matrix:	AQ - Ground Water	Date Received:	01/26/11
Method:	SW846 8260B	Percent Solids:	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.73	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.44	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.34	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.23	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.61	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.56	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.5	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.51	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.45	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.54	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.3	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.94	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.75	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.43	ug/l	
100-42-5	Styrene	ND	5.0	0.68	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.64	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.89	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.39	ug/l	
108-88-3	Toluene	ND	1.0	0.74	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.57	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.35	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.72	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.49	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.47	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.61	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.62	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.51	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.51	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.86	ug/l	
	m,p-Xylene	ND	1.0	0.62	ug/l	
95-47-6	o-Xylene	ND	1.0	0.56	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		70-130%
2037-26-5	Toluene-D8	99%		70-130%
460-00-4	4-Bromofluorobenzene	98%		70-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P54-ROX-012411		
Lab Sample ID:	M97395-6	Date Sampled:	01/24/11
Matrix:	AQ - Ground Water	Date Received:	01/26/11
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S21271.D	1	02/04/11	PR	01/27/11	OP23969	MSS890
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	10	0.77	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	0.68	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.57	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.69	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	2.2	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	2.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	5.0	ug/l	
95-48-7	2-Methylphenol	ND	10	0.48	ug/l	
	3&4-Methylphenol	ND	10	0.63	ug/l	
88-75-5	2-Nitrophenol	ND	10	0.66	ug/l	
100-02-7	4-Nitrophenol	ND	20	5.0	ug/l	
87-86-5	Pentachlorophenol	ND	10	3.3	ug/l	
108-95-2	Phenol	ND	5.0	2.1	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.40	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.38	ug/l	
83-32-9	Acenaphthene	ND	5.0	0.34	ug/l	
208-96-8	Acenaphthylene	ND	5.0	1.3	ug/l	
62-53-3	Aniline	ND	10	0.46	ug/l	"UJ"
120-12-7	Anthracene	ND	5.0	0.27	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	0.27	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	0.23	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	0.27	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	0.61	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	0.29	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	0.32	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	0.41	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.31	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.58	ug/l	"UJ"
218-01-9	Chrysene	ND	5.0	0.22	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	0.35	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	0.23	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	0.21	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P54-ROX-012411		
Lab Sample ID:	M97395-6	Date Sampled:	01/24/11
Matrix:	AQ - Ground Water	Date Received:	01/26/11
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

ABN PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	0.61	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	1.3	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.34	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	2.5	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	0.25	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.32	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	0.34	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	0.34	ug/l	
84-66-2	Diethyl phthalate	~~2.0~~ ND	5.0	0.61	ug/l	~~JB~~ "U"
131-11-3	Dimethyl phthalate	ND	5.0	1.3	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.49	ug/l	
206-44-0	Fluoranthene	ND	5.0	0.22	ug/l	
86-73-7	Fluorene	ND	5.0	0.29	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	0.16	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	2.5	ug/l	"U"
67-72-1	Hexachloroethane	ND	5.0	0.43	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	0.29	ug/l	
78-59-1	Isophorone	ND	5.0	0.47	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	0.31	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.33	ug/l	
99-09-2	3-Nitroaniline	ND	10	0.32	ug/l	
100-01-6	4-Nitroaniline	ND	10	0.33	ug/l	
91-20-3	Naphthalene	ND	5.0	0.33	ug/l	
98-95-3	Nitrobenzene	ND	5.0	0.31	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	0.41	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.61	ug/l	
85-01-8	Phenanthrene	ND	5.0	0.26	ug/l	
129-00-0	Pyrene	ND	5.0	0.25	ug/l	
110-86-1	Pyridine	ND	10	0.50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	38%		15-110%
4165-62-2	Phenol-d5	28%		15-110%
118-79-6	2,4,6-Tribromophenol	67%		15-110%
4165-60-0	Nitrobenzene-d5	86%		30-130%
321-60-8	2-Fluorobiphenyl	85%		30-130%
1718-51-0	Terphenyl-d14	96%		30-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW13-ROX-012511EB		
Lab Sample ID:	M97395-7	Date Sampled:	01/25/11
Matrix:	AQ - Equipment Blank	Date Received:	01/26/11
Method:	SW846 8260B	Percent Solids:	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L49359.D	1	02/03/11	AMY	n/a	n/a	MSL1644
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	4.6	ug/l	
71-43-2	Benzene	2.1	0.50	0.35	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.52	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.91	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.62	ug/l	
75-25-2	Bromoform	ND	1.0	0.73	ug/l	
74-83-9	Bromomethane	ND	2.0	0.95	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.1	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.49	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.37	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.53	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.35	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.42	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.61	ug/l	
75-00-3	Chloroethane	ND	2.0	0.76	ug/l	
67-66-3	Chloroform	ND	1.0	0.72	ug/l	
74-87-3	Chloromethane	ND	2.0	0.81	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.58	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.67	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.3	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.86	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.76	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.74	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.77	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.81	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.61	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.63	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.74	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.70	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.66	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.74	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.83	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW13-ROX-012511EB		
Lab Sample ID:	M97395-7	Date Sampled:	01/25/11
Matrix:	AQ - Equipment Blank	Date Received:	01/26/11
Method:	SW846 8260B	Percent Solids:	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.73	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.44	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.34	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.23	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.61	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.56	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.5	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.51	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.45	ug/l	
1634-04-4	Methyl Tert Butyl Ether	2.1	1.0	0.54	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.3	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.94	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.75	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.43	ug/l	
100-42-5	Styrene	ND	5.0	0.68	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.64	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.89	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.39	ug/l	
108-88-3	Toluene	ND	1.0	0.74	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.57	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.35	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.72	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.49	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.47	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.61	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.62	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.51	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.51	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.86	ug/l	
	m,p-Xylene	ND	1.0	0.62	ug/l	
95-47-6	o-Xylene	ND	1.0	0.56	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		70-130%
2037-26-5	Toluene-D8	100%		70-130%
460-00-4	4-Bromofluorobenzene	115%		70-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW13-ROX-012511EB		
Lab Sample ID:	M97395-7	Date Sampled:	01/25/11
Matrix:	AQ - Equipment Blank	Date Received:	01/26/11
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S21272.D	1	02/04/11	PR	01/27/11	OP23969	MSS890
Run #2							

	Initial Volume	Final Volume
Run #1	970 ml	1.0 ml
Run #2		

ABN PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	10	0.79	ug/l	
95-57-8	2-Chlorophenol	ND	5.2	0.70	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.59	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.71	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	2.2	ug/l	
51-28-5	2,4-Dinitrophenol	ND	21	2.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	5.2	ug/l	
95-48-7	2-Methylphenol	ND	10	0.49	ug/l	
	3&4-Methylphenol	ND	10	0.65	ug/l	
88-75-5	2-Nitrophenol	ND	10	0.68	ug/l	
100-02-7	4-Nitrophenol	ND	21	5.2	ug/l	
87-86-5	Pentachlorophenol	ND	10	3.4	ug/l	
108-95-2	Phenol	ND	5.2	2.1	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.41	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.39	ug/l	
83-32-9	Acenaphthene	ND	5.2	0.35	ug/l	
208-96-8	Acenaphthylene	ND	5.2	1.3	ug/l	
62-53-3	Aniline	ND	10	0.47	ug/l	
120-12-7	Anthracene	ND	5.2	0.28	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.2	0.28	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.2	0.23	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.2	0.28	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.2	0.63	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.2	0.30	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.2	0.33	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.2	0.42	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.2	0.31	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.59	ug/l	
218-01-9	Chrysene	ND	5.2	0.23	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.2	0.36	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.2	0.24	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.2	0.22	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW13-ROX-012511EB		
Lab Sample ID:	M97395-7	Date Sampled:	01/25/11
Matrix:	AQ - Equipment Blank	Date Received:	01/26/11
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

ABN PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.2	0.63	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	1.3	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.35	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.2	2.6	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.2	0.25	ug/l	
132-64-9	Dibenzofuran	ND	5.2	0.32	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.2	0.35	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.2	0.35	ug/l	
84-66-2	Diethyl phthalate	2.0	5.2	0.63	ug/l	JB
131-11-3	Dimethyl phthalate	ND	5.2	1.3	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.1	0.50	ug/l	
206-44-0	Fluoranthene	ND	5.2	0.22	ug/l	
86-73-7	Fluorene	ND	5.2	0.30	ug/l	
118-74-1	Hexachlorobenzene	ND	5.2	0.16	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	2.6	ug/l	
67-72-1	Hexachloroethane	ND	5.2	0.44	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.2	0.30	ug/l	
78-59-1	Isophorone	ND	5.2	0.49	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.2	0.32	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.34	ug/l	
99-09-2	3-Nitroaniline	ND	10	0.33	ug/l	
100-01-6	4-Nitroaniline	ND	10	0.34	ug/l	
91-20-3	Naphthalene	ND	5.2	0.34	ug/l	
98-95-3	Nitrobenzene	ND	5.2	0.31	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.2	0.42	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.2	0.63	ug/l	
85-01-8	Phenanthrene	ND	5.2	0.26	ug/l	
129-00-0	Pyrene	ND	5.2	0.25	ug/l	
110-86-1	Pyridine	ND	10	0.52	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	51%		15-110%
4165-62-2	Phenol-d5	34%		15-110%
118-79-6	2,4,6-Tribromophenol	87%		15-110%
4165-60-0	Nitrobenzene-d5	87%		30-130%
321-60-8	2-Fluorobiphenyl	86%		30-130%
1718-51-0	Terphenyl-d14	95%		30-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW13-ROX-012511		
Lab Sample ID:	M97395-8	Date Sampled:	01/25/11
Matrix:	AQ - Ground Water	Date Received:	01/26/11
Method:	SW846 8260B	Percent Solids:	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N49339.D	1	02/08/11	JP	n/a	n/a	MSN1863
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	4.6	ug/l	
71-43-2	Benzene	ND	0.50	0.35	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.52	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.91	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.62	ug/l	
75-25-2	Bromoform	ND	1.0	0.73	ug/l	
74-83-9	Bromomethane	ND	2.0	0.95	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.1	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.49	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.37	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.53	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.35	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.42	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.61	ug/l	
75-00-3	Chloroethane	ND	2.0	0.76	ug/l	
67-66-3	Chloroform	ND	1.0	0.72	ug/l	
74-87-3	Chloromethane	ND	2.0	0.81	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.58	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.67	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.3	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.86	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.76	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.74	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.77	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.81	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.61	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.63	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.74	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.70	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.66	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.74	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.83	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW13-ROX-012511		
Lab Sample ID:	M97395-8	Date Sampled:	01/25/11
Matrix:	AQ - Ground Water	Date Received:	01/26/11
Method:	SW846 8260B	Percent Solids:	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.73	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.44	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.34	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.23	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.61	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.56	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.5	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.51	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.45	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.54	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.3	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.94	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.75	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.43	ug/l	
100-42-5	Styrene	ND	5.0	0.68	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.64	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.89	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.39	ug/l	
108-88-3	Toluene	ND	1.0	0.74	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.57	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.35	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.72	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.49	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.47	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.61	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.62	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.51	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.51	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.86	ug/l	
	m,p-Xylene	ND	1.0	0.62	ug/l	
95-47-6	o-Xylene	ND	1.0	0.56	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		70-130%
2037-26-5	Toluene-D8	105%		70-130%
460-00-4	4-Bromofluorobenzene	106%		70-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW13-ROX-012511		
Lab Sample ID:	M97395-8	Date Sampled:	01/25/11
Matrix:	AQ - Ground Water	Date Received:	01/26/11
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S21273.D	1	02/04/11	PR	01/27/11	OP23969	MSS890
Run #2							

	Initial Volume	Final Volume
Run #1	960 ml	1.0 ml
Run #2		

ABN PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	10	0.80	ug/l	
95-57-8	2-Chlorophenol	ND	5.2	0.71	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.60	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.72	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	2.2	ug/l	
51-28-5	2,4-Dinitrophenol	ND	21	2.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	5.2	ug/l	
95-48-7	2-Methylphenol	ND	10	0.50	ug/l	
	3&4-Methylphenol	ND	10	0.66	ug/l	
88-75-5	2-Nitrophenol	ND	10	0.69	ug/l	
100-02-7	4-Nitrophenol	ND	21	5.2	ug/l	
87-86-5	Pentachlorophenol	ND	10	3.4	ug/l	
108-95-2	Phenol	ND	5.2	2.1	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.42	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.39	ug/l	
83-32-9	Acenaphthene	ND	5.2	0.35	ug/l	
208-96-8	Acenaphthylene	ND	5.2	1.3	ug/l	
62-53-3	Aniline	ND	10	0.47	ug/l	"UJ"
120-12-7	Anthracene	ND	5.2	0.28	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.2	0.28	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.2	0.24	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.2	0.28	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.2	0.64	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.2	0.31	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.2	0.33	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.2	0.43	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.2	0.32	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.60	ug/l	"UJ"
218-01-9	Chrysene	ND	5.2	0.23	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.2	0.37	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.2	0.24	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.2	0.22	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW13-ROX-012511		
Lab Sample ID:	M97395-8	Date Sampled:	01/25/11
Matrix:	AQ - Ground Water	Date Received:	01/26/11
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

ABN PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.2	0.64	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	1.3	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.35	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.2	2.6	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.2	0.26	ug/l	
132-64-9	Dibenzofuran	ND	5.2	0.33	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.2	0.35	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.2	0.35	ug/l	
84-66-2	Diethyl phthalate	~~2.7~~ 0.6ND	5.2	0.64	ug/l	~~JB~~ "U"
131-11-3	Dimethyl phthalate	ND	5.2	1.3	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.1	0.51	ug/l	
206-44-0	Fluoranthene	ND	5.2	0.23	ug/l	
86-73-7	Fluorene	0.44	5.2	0.30	ug/l	J
118-74-1	Hexachlorobenzene	ND	5.2	0.16	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	2.6	ug/l	"U"
67-72-1	Hexachloroethane	ND	5.2	0.45	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.2	0.30	ug/l	
78-59-1	Isophorone	ND	5.2	0.49	ug/l	
91-57-6	2-Methylnaphthalene	2.1	5.2	0.32	ug/l	J
88-74-4	2-Nitroaniline	ND	10	0.35	ug/l	
99-09-2	3-Nitroaniline	ND	10	0.34	ug/l	
100-01-6	4-Nitroaniline	ND	10	0.35	ug/l	
91-20-3	Naphthalene	ND	5.2	0.34	ug/l	
98-95-3	Nitrobenzene	ND	5.2	0.32	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.2	0.42	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.2	0.64	ug/l	
85-01-8	Phenanthrene	1.2	5.2	0.27	ug/l	J
129-00-0	Pyrene	0.32	5.2	0.26	ug/l	J
110-86-1	Pyridine	ND	10	0.52	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	53%		15-110%
4165-62-2	Phenol-d5	35%		15-110%
118-79-6	2,4,6-Tribromophenol	99%		15-110%
4165-60-0	Nitrobenzene-d5	86%		30-130%
321-60-8	2-Fluorobiphenyl	90%		30-130%
1718-51-0	Terphenyl-d14	89%		30-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW7-ROX-012511		
Lab Sample ID:	M97395-9	Date Sampled:	01/25/11
Matrix:	AQ - Ground Water	Date Received:	01/26/11
Method:	SW846 8260B	Percent Solids:	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L49372.D	1	02/03/11	AMY	n/a	n/a	MSL1644
Run #2	N49340.D	10000	02/08/11	JP	n/a	n/a	MSN1863

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	4.6	ug/l	"UJ"
71-43-2	Benzene	1150000 [a]	5000	3500	ug/l	"UJ"
108-86-1	Bromobenzene	ND	5.0	0.52	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.91	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.62	ug/l	
75-25-2	Bromoform	ND	1.0	0.73	ug/l	
74-83-9	Bromomethane	ND	2.0	0.95	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.1	ug/l	
104-51-8	n-Butylbenzene	1.5	5.0	0.49	ug/l	"J"
135-98-8	sec-Butylbenzene	1.1	5.0	0.37	ug/l	"J"
98-06-6	tert-Butylbenzene	1.2	5.0	0.53	ug/l	"J"
75-15-0	Carbon disulfide	ND	5.0	0.35	ug/l	"UJ"
56-23-5	Carbon tetrachloride	ND	1.0	0.42	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.61	ug/l	
75-00-3	Chloroethane	ND	2.0	0.76	ug/l	
67-66-3	Chloroform	ND	1.0	0.72	ug/l	
74-87-3	Chloromethane	ND	2.0	0.81	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.58	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.67	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.3	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.86	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.76	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.74	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.77	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.81	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.61	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.63	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.74	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.70	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.66	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.74	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.83	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW7-ROX-012511		
Lab Sample ID:	M97395-9	Date Sampled:	01/25/11
Matrix:	AQ - Ground Water	Date Received:	01/26/11
Method:	SW846 8260B	Percent Solids:	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.73	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.44	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.34	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.23	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.23	ug/l	
100-41-4	Ethylbenzene	32.5	1.0	0.61	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.56	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.5	ug/l	
98-82-8	Isopropylbenzene	4.0	5.0	0.51	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.45	ug/l	
1634-04-4	Methyl Tert Butyl Ether	~~5.7~~ 0.0 ND	~~1.0~~ 5.7	0.54	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.3	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.94	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.75	ug/l	
103-65-1	n-Propylbenzene	5.8	5.0	0.43	ug/l	
100-42-5	Styrene	ND	5.0	0.68	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.64	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.89	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.39	ug/l	
108-88-3	Toluene	90.7	1.0	0.74	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.57	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.35	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.72	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.49	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.47	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.61	ug/l	
95-63-6	1,2,4-Trimethylbenzene	55.2	5.0	0.62	ug/l	
108-67-8	1,3,5-Trimethylbenzene	13.3	5.0	0.51	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.51	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.86	ug/l	
	m,p-Xylene	69.4	1.0	0.62	ug/l	
95-47-6	o-Xylene	23.5	1.0	0.56	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	38% [b]	100%	70-130%
2037-26-5	Toluene-D8	149% [b]	106%	70-130%
460-00-4	4-Bromofluorobenzene	88%	105%	70-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW7-ROX-012511		
Lab Sample ID:	M97395-9	Date Sampled:	01/25/11
Matrix:	AQ - Ground Water	Date Received:	01/26/11
Method:	SW846 8260B	Percent Solids:	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q

(a) Result is from Run# 2
(b) Outside control limits due to possible matrix interference. Confirmed by reanalysis.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW7-ROX-012511		
Lab Sample ID:	M97395-9	Date Sampled:	01/25/11
Matrix:	AQ - Ground Water	Date Received:	01/26/11
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S21274.D	1	02/04/11	PR	01/27/11	OP23969	MSS890
Run #2							

	Initial Volume	Final Volume
Run #1	950 ml	1.0 ml
Run #2		

ABN PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	11	0.81	ug/l	
95-57-8	2-Chlorophenol	ND	5.3	0.72	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.60	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.73	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	2.3	ug/l	
51-28-5	2,4-Dinitrophenol	ND	21	2.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	5.3	ug/l	
95-48-7	2-Methylphenol	ND	11	0.50	ug/l	
	3&4-Methylphenol	0.99	11	0.66	ug/l	J
88-75-5	2-Nitrophenol	ND	11	0.69	ug/l	
100-02-7	4-Nitrophenol	ND	21	5.3	ug/l	
87-86-5	Pentachlorophenol	ND	11	3.5	ug/l	
108-95-2	Phenol	73.7	5.3	2.2	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.42	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.40	ug/l	
83-32-9	Acenaphthene	ND	5.3	0.36	ug/l	
208-96-8	Acenaphthylene	ND	5.3	1.3	ug/l	"UJ"
62-53-3	Aniline	ND	11	0.48	ug/l	
120-12-7	Anthracene	ND	5.3	0.29	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.3	0.29	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.3	0.24	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.3	0.29	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.3	0.64	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.3	0.31	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.3	0.34	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.3	0.43	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.3	0.32	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.61	ug/l	"UJ"
218-01-9	Chrysene	ND	5.3	0.24	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.3	0.37	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.3	0.25	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.3	0.22	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

3.9

Client Sample ID:	MW7-ROX-012511		
Lab Sample ID:	M97395-9	Date Sampled:	01/25/11
Matrix:	AQ - Ground Water	Date Received:	01/26/11
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

ABN PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.3	0.64	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	1.3	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.35	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.3	2.6	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.3	0.26	ug/l	
132-64-9	Dibenzofuran	ND	5.3	0.33	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.3	0.35	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.3	0.36	ug/l	
84-66-2	Diethyl phthalate	~~3.0~~ 0.6 ND	5.3	0.64	ug/l	~~JB~~ "U"
131-11-3	Dimethyl phthalate	ND	5.3	1.3	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.1	0.51	ug/l	
206-44-0	Fluoranthene	ND	5.3	0.23	ug/l	
86-73-7	Fluorene	ND	5.3	0.31	ug/l	
118-74-1	Hexachlorobenzene	ND	5.3	0.17	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	2.6	ug/l	"UJ"
67-72-1	Hexachloroethane	ND	5.3	0.45	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.3	0.30	ug/l	
78-59-1	Isophorone	ND	5.3	0.50	ug/l	
91-57-6	2-Methylnaphthalene	2.3	5.3	0.32	ug/l	J
88-74-4	2-Nitroaniline	ND	11	0.35	ug/l	
99-09-2	3-Nitroaniline	ND	11	0.34	ug/l	
100-01-6	4-Nitroaniline	ND	11	0.35	ug/l	
91-20-3	Naphthalene	5.8	5.3	0.34	ug/l	
98-95-3	Nitrobenzene	ND	5.3	0.32	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.3	0.43	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.3	0.64	ug/l	
85-01-8	Phenanthrene	ND	5.3	0.27	ug/l	
129-00-0	Pyrene	ND	5.3	0.26	ug/l	
110-86-1	Pyridine	ND	11	0.53	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	43%		15-110%
4165-62-2	Phenol-d5	28%		15-110%
118-79-6	2,4,6-Tribromophenol	79%		15-110%
4165-60-0	Nitrobenzene-d5	73%		30-130%
321-60-8	2-Fluorobiphenyl	73%		30-130%
1718-51-0	Terphenyl-d14	82%		30-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW8-ROX-012511		
Lab Sample ID:	M97395-10	Date Sampled:	01/25/11
Matrix:	AQ - Ground Water	Date Received:	01/26/11
Method:	SW846 8260B	Percent Solids:	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L49373.D	1	02/03/11	AMY	n/a	n/a	MSL1644
Run #2	N49341.D	10000	02/08/11	JP	n/a	n/a	MSN1863

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	~~46.9~~ 46.9 C.OND	~~5.0~~ 46.9	4.6	ug/l	"U"
71-43-2	Benzene	986000 [a]	5000	3500	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.52	ug/l	"UJ"
74-97-5	Bromochloromethane	ND	5.0	0.91	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.62	ug/l	
75-25-2	Bromoform	ND	1.0	0.73	ug/l	
74-83-9	Bromomethane	ND	2.0	0.95	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.1	ug/l	
104-51-8	n-Butylbenzene	2.1	5.0	0.49	ug/l	"J"
135-98-8	sec-Butylbenzene	1.4	5.0	0.37	ug/l	"J"
98-06-6	tert-Butylbenzene	ND	5.0	0.53	ug/l	"UJ"
75-15-0	Carbon disulfide	ND	5.0	0.35	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.42	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.61	ug/l	
75-00-3	Chloroethane	ND	2.0	0.76	ug/l	
67-66-3	Chloroform	ND	1.0	0.72	ug/l	
74-87-3	Chloromethane	ND	2.0	0.81	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.58	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.67	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.3	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.86	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.76	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.74	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.77	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.81	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.61	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.63	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.74	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.70	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.66	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.74	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.83	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW8-ROX-012511		
Lab Sample ID:	M97395-10	**Date Sampled:**	01/25/11
Matrix:	AQ - Ground Water	**Date Received:**	01/26/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.73	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.44	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.34	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.23	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.23	ug/l	
100-41-4	Ethylbenzene	234	1.0	0.61	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.56	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.5	ug/l	
98-82-8	Isopropylbenzene	10.4	5.0	0.51	ug/l	
99-87-6	p-Isopropyltoluene	1.2	5.0	0.45	ug/l	
1634-04-4	Methyl Tert Butyl Ether	210	1.0	0.54	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.3	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.94	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.75	ug/l	
103-65-1	n-Propylbenzene	17.3	5.0	0.43	ug/l	
100-42-5	Styrene	ND	5.0	0.68	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.64	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.89	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.39	ug/l	
108-88-3	Toluene	1200	1.0	0.74	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.57	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.35	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.72	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.49	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.47	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.61	ug/l	
95-63-6	1,2,4-Trimethylbenzene	109	5.0	0.62	ug/l	
108-67-8	1,3,5-Trimethylbenzene	33.2	5.0	0.51	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.51	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.86	ug/l	
	m,p-Xylene	499	1.0	0.62	ug/l	
95-47-6	o-Xylene	188	1.0	0.56	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	38% [b]	99%	70-130%
2037-26-5	Toluene-D8	269% [b]	105%	70-130%
460-00-4	4-Bromofluorobenzene	91%	104%	70-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW8-ROX-012511		
Lab Sample ID:	M97395-10	Date Sampled:	01/25/11
Matrix:	AQ - Ground Water	Date Received:	01/26/11
Method:	SW846 8260B	Percent Solids:	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q

(a) Result is from Run# 2
(b) Outside control limits due to possible matrix interference. Confirmed by reanalysis.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW8-ROX-012511		
Lab Sample ID:	M97395-10	Date Sampled:	01/25/11
Matrix:	AQ - Ground Water	Date Received:	01/26/11
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S21275.D	1	02/04/11	PR	01/27/11	OP23969	MSS890
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	10	0.77	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	0.68	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.57	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.69	ug/l	
105-67-9	2,4-Dimethylphenol	23.3	10	2.2	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	2.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	5.0	ug/l	
95-48-7	2-Methylphenol	19.5	10	0.48	ug/l	
	3&4-Methylphenol	50.2	10	0.63	ug/l	
88-75-5	2-Nitrophenol	ND	10	0.66	ug/l	
100-02-7	4-Nitrophenol	ND	20	5.0	ug/l	
87-86-5	Pentachlorophenol	ND	10	3.3	ug/l	
108-95-2	Phenol	119	5.0	2.1	ug/l	"J"
95-95-4	2,4,5-Trichlorophenol	ND	10	0.40	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.38	ug/l	
83-32-9	Acenaphthene	ND	5.0	0.34	ug/l	
208-96-8	Acenaphthylene	ND	5.0	1.3	ug/l	
62-53-3	Aniline	ND	10	0.46	ug/l	"UJ"
120-12-7	Anthracene	ND	5.0	0.27	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	0.27	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	0.23	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	0.27	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	0.61	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	0.29	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	0.32	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	0.41	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.31	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.58	ug/l	"UJ"
218-01-9	Chrysene	ND	5.0	0.22	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	0.35	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	0.23	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	0.21	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW8-ROX-012511		
Lab Sample ID:	M97395-10	Date Sampled:	01/25/11
Matrix:	AQ - Ground Water	Date Received:	01/26/11
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

ABN PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	0.61	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	1.3	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.34	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	2.5	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	0.25	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.32	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	0.34	ug/l	
117-84-0	Di-n-octyl phthalate	0.40	5.0	0.34	ug/l	J
84-66-2	Diethyl phthalate	~~2.5~~ 0.OND	5.0	0.61	ug/l	~~JB~~ "U"
131-11-3	Dimethyl phthalate	ND	5.0	1.3	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	0.86	2.0	0.49	ug/l	J
206-44-0	Fluoranthene	ND	5.0	0.22	ug/l	
86-73-7	Fluorene	ND	5.0	0.29	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	0.16	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	2.5	ug/l	"UJ"
67-72-1	Hexachloroethane	ND	5.0	0.43	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	0.29	ug/l	
78-59-1	Isophorone	ND	5.0	0.47	ug/l	
91-57-6	2-Methylnaphthalene	6.9	5.0	0.31	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.33	ug/l	
99-09-2	3-Nitroaniline	ND	10	0.32	ug/l	
100-01-6	4-Nitroaniline	ND	10	0.33	ug/l	
91-20-3	Naphthalene	26.0	5.0	0.33	ug/l	
98-95-3	Nitrobenzene	ND	5.0	0.31	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	0.41	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.61	ug/l	
85-01-8	Phenanthrene	ND	5.0	0.26	ug/l	
129-00-0	Pyrene	ND	5.0	0.25	ug/l	
110-86-1	Pyridine	ND	10	0.50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	52%		15-110%
4165-62-2	Phenol-d5	34%		15-110%
118-79-6	2,4,6-Tribromophenol	90%		15-110%
4165-60-0	Nitrobenzene-d5	81%		30-130%
321-60-8	2-Fluorobiphenyl	80%		30-130%
1718-51-0	Terphenyl-d14	83%		30-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW8-ROX-012511 DUP		
Lab Sample ID:	M97395-11	Date Sampled:	01/25/11
Matrix:	AQ - Ground Water	Date Received:	01/26/11
Method:	SW846 8260B	Percent Solids:	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L49374.D	1	02/03/11	AMY	n/a	n/a	MSL1644
Run #2	N49342.D	10000	02/08/11	JP	n/a	n/a	MSN1863

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	~~40.3~~ ND	~~5.0~~ 40.3	4.6	ug/l	UV
71-43-2	Benzene	1030000 a	5000	3500	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.52	ug/l	UJV
74-97-5	Bromochloromethane	ND	5.0	0.91	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.62	ug/l	
75-25-2	Bromoform	ND	1.0	0.73	ug/l	
74-83-9	Bromomethane	ND	2.0	0.95	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.1	ug/l	
104-51-8	n-Butylbenzene	2.0	5.0	0.49	ug/l	J"
135-98-8	sec-Butylbenzene	1.4	5.0	0.37	ug/l	J"
98-06-6	tert-Butylbenzene	1.1	5.0	0.53	ug/l	J"
75-15-0	Carbon disulfide	ND	5.0	0.35	ug/l	UJV
56-23-5	Carbon tetrachloride	ND	1.0	0.42	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.61	ug/l	
75-00-3	Chloroethane	ND	2.0	0.76	ug/l	
67-66-3	Chloroform	ND	1.0	0.72	ug/l	
74-87-3	Chloromethane	ND	2.0	0.81	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.58	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.67	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.3	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.86	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.76	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.74	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.77	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.81	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.61	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.63	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.74	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.70	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.66	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.74	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.83	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW8-ROX-012511 DUP		
Lab Sample ID:	M97395-11	Date Sampled:	01/25/11
Matrix:	AQ - Ground Water	Date Received:	01/26/11
Method:	SW846 8260B	Percent Solids:	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.73	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.44	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.34	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.23	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.23	ug/l	
100-41-4	Ethylbenzene	237	1.0	0.61	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.56	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.5	ug/l	
98-82-8	Isopropylbenzene	10.5	5.0	0.51	ug/l	
99-87-6	p-Isopropyltoluene	1.0	5.0	0.45	ug/l	J
1634-04-4	Methyl Tert Butyl Ether	205	1.0	0.54	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.3	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.94	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.75	ug/l	
103-65-1	n-Propylbenzene	17.0	5.0	0.43	ug/l	
100-42-5	Styrene	ND	5.0	0.68	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.64	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.89	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.39	ug/l	
108-88-3	Toluene	1120	1.0	0.74	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.57	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.35	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.72	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.49	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.47	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.61	ug/l	
95-63-6	1,2,4-Trimethylbenzene	110	5.0	0.62	ug/l	
108-67-8	1,3,5-Trimethylbenzene	33.6	5.0	0.51	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.51	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.86	ug/l	
	m,p-Xylene	518	1.0	0.62	ug/l	
95-47-6	o-Xylene	191	1.0	0.56	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	85%	99%	70-130%
2037-26-5	Toluene-D8	257% [b]	103%	70-130%
460-00-4	4-Bromofluorobenzene	90%	101%	70-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW8-ROX-012511 DUP		
Lab Sample ID:	M97395-11	Date Sampled:	01/25/11
Matrix:	AQ - Ground Water	Date Received:	01/26/11
Method:	SW846 8260B	Percent Solids:	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q

(a) Result is from Run# 2
(b) Outside control limits due to possible matrix interference. Confirmed by reanalysis.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW8-ROX-012511 DUP		
Lab Sample ID:	M97395-11	Date Sampled:	01/25/11
Matrix:	AQ - Ground Water	Date Received:	01/26/11
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S21276.D	1	02/04/11	PR	01/27/11	OP23969	MSS890
Run #2							

	Initial Volume	Final Volume
Run #1	880 ml	1.0 ml
Run #2		

ABN PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	11	0.87	ug/l	
95-57-8	2-Chlorophenol	ND	5.7	0.77	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.65	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.79	ug/l	
105-67-9	2,4-Dimethylphenol	29.9	11	2.4	ug/l	
51-28-5	2,4-Dinitrophenol	ND	23	2.8	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	5.7	ug/l	
95-48-7	2-Methylphenol	22.8	11	0.54	ug/l	
	3&4-Methylphenol	58.7	11	0.71	ug/l	
88-75-5	2-Nitrophenol	ND	11	0.75	ug/l	
100-02-7	4-Nitrophenol	ND	23	5.7	ug/l	
87-86-5	Pentachlorophenol	ND	11	3.8	ug/l	
108-95-2	Phenol	171	5.7	2.3	ug/l	J
95-95-4	2,4,5-Trichlorophenol	ND	11	0.46	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.43	ug/l	
83-32-9	Acenaphthene	ND	5.7	0.38	ug/l	
208-96-8	Acenaphthylene	ND	5.7	1.4	ug/l	
62-53-3	Aniline	ND	11	0.52	ug/l	J
120-12-7	Anthracene	ND	5.7	0.31	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.7	0.31	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.7	0.26	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.7	0.31	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.7	0.70	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.7	0.33	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.7	0.36	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.7	0.46	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.7	0.35	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.65	ug/l	J
218-01-9	Chrysene	ND	5.7	0.25	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.7	0.40	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.7	0.27	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.7	0.24	ug/l	

ND = Not detected MDL - Method Detection Limit
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E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW8-ROX-012511 DUP		
Lab Sample ID:	M97395-11	Date Sampled:	01/25/11
Matrix:	AQ - Ground Water	Date Received:	01/26/11
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

ABN PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.7	0.70	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	1.4	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.38	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.7	2.8	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.7	0.28	ug/l	
132-64-9	Dibenzofuran	ND	5.7	0.36	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.7	0.38	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.7	0.38	ug/l	
84-66-2	Diethyl phthalate	12.5	5.7	0.70	ug/l	
131-11-3	Dimethyl phthalate	ND	5.7	1.4	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	1.2	2.3	0.56	ug/l	J
206-44-0	Fluoranthene	ND	5.7	0.25	ug/l	
86-73-7	Fluorene	ND	5.7	0.33	ug/l	
118-74-1	Hexachlorobenzene	ND	5.7	0.18	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	2.8	ug/l	UJ
67-72-1	Hexachloroethane	ND	5.7	0.49	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.7	0.33	ug/l	
78-59-1	Isophorone	ND	5.7	0.54	ug/l	
91-57-6	2-Methylnaphthalene	7.5	5.7	0.35	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.38	ug/l	
99-09-2	3-Nitroaniline	ND	11	0.37	ug/l	
100-01-6	4-Nitroaniline	ND	11	0.38	ug/l	
91-20-3	Naphthalene	28.8	5.7	0.37	ug/l	
98-95-3	Nitrobenzene	ND	5.7	0.35	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.7	0.46	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.7	0.70	ug/l	
85-01-8	Phenanthrene	ND	5.7	0.29	ug/l	
129-00-0	Pyrene	ND	5.7	0.28	ug/l	
110-86-1	Pyridine	ND	11	0.57	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	55%		15-110%
4165-62-2	Phenol-d5	36%		15-110%
118-79-6	2,4,6-Tribromophenol	97%		15-110%
4165-60-0	Nitrobenzene-d5	83%		30-130%
321-60-8	2-Fluorobiphenyl	84%		30-130%
1718-51-0	Terphenyl-d14	90%		30-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

New England ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Certification Exceptions (IL)
- Chain of Custody
- Sample Tracking Chronicle
- Internal Chain of Custody

LAB (LOCATION)
☐ XENCO (_____)
☐ CALSCIENCE (_____)
☑ OTHER (Accutest, 495 Technology Ctr W Marlborough, MA 01752 (508-481-6200)) ☐ Lab Vendor # (_____)
☐ SPL (_____)
Lab Vendor #

Shell Oil Products Chain Of Custody Record

Please Check Appropriate Box:
☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SOR/CH ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name: WENDY PENNINGTON
PO #
INCIDENT # (ENV SERVICES): 9 7 2 1 6 4 4 0 ☐ CHECK IF NO INCIDENT # APPLIES
SAP #: 3 4 0 0 8 1
DATE: 1/24/11
PAGE: 1 of 2

URS CORPORATION
1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300, ST. LOUIS, MO 63110
WENDY PENNINGTON
314-743-4168 or 341-452-8828 | 314-429-0462
SITE ADDRESS: 170 EAST RAND AVENUE -- HARTFORD IL
Roxana Quarterly / 21562553.00003
LAB USE ONLY: M97395

TURNAROUND TIME (CALENDAR DAYS): ☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND
☐ EA - RWQCB REPORT FORMAT ☐ UST AGENCY:
DELIVERABLES: ☐ LEVEL 1 ☑ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☑ OTHER (SPECIFY) EDD
TEMPERATURE ON RECEIPT C° Cooler #1 Cooler #2 Cooler #3

SPECIAL INSTRUCTIONS OR NOTES:
QUOTE # PEK12/2010-14
☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED
☐ PROVIDE LEDD DISK

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NaOH	OTHER	NO. OF CONT.	VOC 8260B	SVOC 8270C	PID (ppm)	FIELD NOTES:
-1	TB-ROX-012411	1/24/11	0900	Water	2			2		4	✓			TEMPERATURE ON RECEIPT C°
-2	MW12-ROX-012411	1/24/11	1000		3			2		5	✓	✓		
-2S	MW12-ROX-012411MS	1/24/11	1000		3			2			✓	✓		
-2D	MW12-ROX-012411MSD	1/24/11	1000		3			2			✓	✓		
-3	MW11-ROX-012411	1/24/11	1135		3			2			✓	✓		
-4	MW10-ROX-012411	1/24/11	1250		3			2			✓	✓		
-5	MW10-ROX-012411DUP	1/24/11	1250		3			2			✓	✓		
-6	P54-ROX-012411	1/24/11	1455		3			2			✓	✓		
-7	MW13-ROX-012511EB	1/25/11	0800		3			2			✓	✓		176,5714
-8	MW13-ROX-012511	1/25/11	1110	Water	3			2		5	✓	✓		Container PID Readings or Laboratory Notes

Relinquished by: (Signature)	Received by: (Signature)	Date	Time
[signature]	FedEx	1/25/11	1630
FedEx	[signature]	1/26/11	10.30
			1.9/1.6°C

M97395: Chain of Custody
Page 1 of 3

LAB (LOCATION)
☐ XENCO (_____)
☐ CALSCIENCE (Accutest Labs, 495 Technology Dr W
☑ OTHER (Marlborough, MA 01752 (508-481-6200)
☐ SPL (Lab Vendor # _____)
Lab Vendor #

Shell Oil Products Chain Of Custody Record

Please Check Appropriate Box:
☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SOECH ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name: WENDY PENNINGTON
PO #

INCIDENT # (ENV SERVICES): 97240
SAP #: 340081
☐ CHECK IF NO INCIDENT # APPLIES
DATE: 1/25/11
PAGE: 2 of 2

URS CORPORATION
1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300, ST. LOUIS, MO 63110
WENDY PENNINGTON
314-743-4166 or 341-452-6928 | 314-429-0462

170 EAST RAND AVENUE – HARTFORD, IL
Roxana Quarterly / 21542583.00003

LAB USE ONLY: M97395

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKENDS

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:

DELIVERABLES: ☐ LEVEL 1 ☑ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☑ OTHER (SPECIFY) EDD

TEMPERATURE ON RECEIPT C°: Cooler #1 | Cooler #2 | Cooler #3

SPECIAL INSTRUCTIONS OR NOTES:
QUOTE # PEK12/2010-14

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED
☐ PROVIDE EDD DISK

REQUESTED ANALYSIS

FIELD NOTES:
TEMPERATURE ON RECEIPT C°

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE	NO. OF CONT.	VOC 8260B	SVOC 8270C	PID (ppm)	Container PID Readings or Laboratory Notes
-9	MW7-ROX-012511	1/25/11	1435	Water	HCL 3	2	✓	✓		
-10	MW8-ROX-012511	1/25/11	1325	↓	HCL 3	2	✓	✓		
-11	MW8-ROX-013511	1/25/11	1325	↓	HCL 3	2	✓	✓		

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]		1/25/11	1630

M97395: Chain of Custody
Page 2 of 3

ACCUTEST LABORATORIES

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: M97395 **Client:** URS **Immediate Client Services Action Required:** No

Date / Time Received: 1/26/2011 **Delivery Method:** **Client Service Action Required at Login:** No

Project: 170 EAST RAND AVE HARTFORD **No. Coolers:** 2 **Airbill #'s:** N/A

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	Infared gun		
3. Cooler media:	Ice (bag)		

Quality Control Preservatio	Y	or	N	N/A
1. Trip Blank present / cooler:	☑		☐	☐
2. Trip Blank listed on COC:	☑		☐	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

4.1

4

M97395: Chain of Custody
Page 3 of 3

Internal Sample Tracking Chronicle

Shell Oil

Job No: M97395

URSMOSTL:97216640 170 East Rand Avenue Hartford, IL
Project No: SAP#340061

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
M97395-1	Collected: 24-JAN-11 00:00 By:		Received: 26-JAN-11 By: JB			
TB-ROX-012411						
M97395-1	SW846 8260B	03-FEB-11 11:41	AMY			V8260STD
M97395-2	Collected: 24-JAN-11 10:00 By:		Received: 26-JAN-11 By: JB			
MW12-ROX-012411						
M97395-2	SW846 8260B	03-FEB-11 15:30	AMY			V8260STD
M97395-2	SW846 8270C	04-FEB-11 00:48	PR	27-JAN-11	AJ	AB8270PPL
M97395-3	Collected: 24-JAN-11 11:35 By:		Received: 26-JAN-11 By: JB			
MW11-ROX-012411						
M97395-3	SW846 8260B	03-FEB-11 15:59	AMY			V8260STD
M97395-3	SW846 8270C	04-FEB-11 01:14	PR	27-JAN-11	AJ	AB8270PPL
M97395-4	Collected: 24-JAN-11 12:50 By:		Received: 26-JAN-11 By: JB			
MW10-ROX-012411						
M97395-4	SW846 8260B	03-FEB-11 16:28	AMY			V8260STD
M97395-4	SW846 8270C	04-FEB-11 01:41	PR	27-JAN-11	AJ	AB8270PPL
M97395-5	Collected: 24-JAN-11 12:50 By:		Received: 26-JAN-11 By: JB			
MW10-ROX-012411DUP						
M97395-5	SW846 8260B	03-FEB-11 16:56	AMY			V8260STD
M97395-5	SW846 8270C	04-FEB-11 02:08	PR	27-JAN-11	AJ	AB8270PPL
M97395-6	Collected: 24-JAN-11 14:55 By:		Received: 26-JAN-11 By: JB			
P54-ROX-012411						
M97395-6	SW846 8270C	04-FEB-11 02:35	PR	27-JAN-11	AJ	AB8270PPL
M97395-6	SW846 8260B	07-FEB-11 15:59	EL			V8260STD
M97395-7	Collected: 25-JAN-11 08:00 By:		Received: 26-JAN-11 By: JB			
MW13-ROX-012511EB						
M97395-7	SW846 8260B	03-FEB-11 12:08	AMY			V8260STD
M97395-7	SW846 8270C	04-FEB-11 03:01	PR	27-JAN-11	AJ	AB8270PPL

Internal Sample Tracking Chronicle

Shell Oil

Job No: M97395

URSMOSTL:97216640 170 East Rand Avenue Hartford, IL
Project No: SAP#340061

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
M97395-8 Collected: 25-JAN-11 11:10 By: MW13-ROX-012511		Received: 26-JAN-11 By: JB				
M97395-8	SW846 8270C	04-FEB-11 03:28	PR	27-JAN-11	AJ	AB8270PPL
M97395-8	SW846 8260B	08-FEB-11 15:21	JP			V8260STD
M97395-9 Collected: 25-JAN-11 14:35 By: MW7-ROX-012511		Received: 26-JAN-11 By: JB				
M97395-9	SW846 8260B	03-FEB-11 18:23	AMY			V8260STD
M97395-9	SW846 8270C	04-FEB-11 03:55	PR	27-JAN-11	AJ	AB8270PPL
M97395-9	SW846 8260B	08-FEB-11 15:49	JP			V8260STD
M97395-10 Collected: 25-JAN-11 13:25 By: MW8-ROX-012511		Received: 26-JAN-11 By: JB				
M97395-10	SW846 8260B	03-FEB-11 18:52	AMY			V8260STD
M97395-10	SW846 8270C	04-FEB-11 04:22	PR	27-JAN-11	AJ	AB8270PPL
M97395-10	SW846 8260B	08-FEB-11 16:17	JP			V8260STD
M97395-11 Collected: 25-JAN-11 13:25 By: MW8-ROX-012511 DUP		Received: 26-JAN-11 By: JB				
M97395-11	SW846 8260B	03-FEB-11 19:20	AMY			V8260STD
M97395-11	SW846 8270C	04-FEB-11 04:48	PR	27-JAN-11	AJ	AB8270PPL
M97395-11	SW846 8260B	08-FEB-11 16:45	JP			V8260STD

Accutest Internal Chain of Custody

Job Number: M97395
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL
Received: 01/26/11

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
M97395-1.1	VOC Ref #5	Amy Min Yang	02/03/11 10:11	Retrieve from Storage
M97395-1.1	Amy Min Yang	GCMSL	02/03/11 10:11	Load on Instrument
M97395-1.1	GCMSL	Amy Min Yang	02/08/11 11:40	Unload from Instrument
M97395-1.1	Amy Min Yang	VOC Ref #5	02/08/11 11:40	Return to Storage
M97395-2.1	Walk In Ref #22	Mahmoud Afzali	01/27/11 11:42	Retrieve from Storage
M97395-2.1	Mahmoud Afzali		01/28/11 11:13	Depleted
M97395-2.3	Walk In Ref #22	Mahmoud Afzali	01/27/11 11:42	Retrieve from Storage
M97395-2.3	Mahmoud Afzali		01/28/11 11:13	Depleted
M97395-2.4	Walk In Ref #22	Mahmoud Afzali	01/27/11 11:42	Retrieve from Storage
M97395-2.4	Mahmoud Afzali		01/28/11 11:13	Depleted
M97395-2.9	VOC Ref #5	Amy Min Yang	02/03/11 10:11	Retrieve from Storage
M97395-2.9	Amy Min Yang	GCMSL	02/03/11 10:11	Load on Instrument
M97395-2.9	GCMSL	Amy Min Yang	02/08/11 11:40	Unload from Instrument
M97395-2.9	Amy Min Yang	VOC Ref #5	02/08/11 11:40	Return to Storage
M97395-2.10	VOC Ref #5	Amy Min Yang	02/03/11 10:11	Retrieve from Storage
M97395-2.10	Amy Min Yang	GCMSL	02/03/11 10:11	Load on Instrument
M97395-2.10	GCMSL	Amy Min Yang	02/08/11 11:40	Unload from Instrument
M97395-2.10	Amy Min Yang	VOC Ref #5	02/08/11 11:40	Return to Storage
M97395-2.13	VOC Ref #5	Amy Min Yang	02/03/11 10:11	Retrieve from Storage
M97395-2.13	Amy Min Yang	GCMSL	02/03/11 10:11	Load on Instrument
M97395-2.13	GCMSL	Amy Min Yang	02/08/11 11:40	Unload from Instrument
M97395-2.13	Amy Min Yang	VOC Ref #5	02/08/11 11:40	Return to Storage
M97395-2.14	VOC Ref #5	Amy Min Yang	02/03/11 10:11	Retrieve from Storage
M97395-2.14	Amy Min Yang	GCMSL	02/03/11 10:11	Load on Instrument
M97395-2.14	GCMSL	Amy Min Yang	02/08/11 11:40	Unload from Instrument
M97395-2.14	Amy Min Yang	VOC Ref #5	02/08/11 11:40	Return to Storage
M97395-3.1	Walk In Ref #22	Mahmoud Afzali	01/27/11 11:42	Retrieve from Storage
M97395-3.1	Mahmoud Afzali		01/28/11 11:13	Depleted
M97395-3.5	VOC Ref #5	Amy Min Yang	02/03/11 10:11	Retrieve from Storage
M97395-3.5	Amy Min Yang	GCMSL	02/03/11 10:11	Load on Instrument
M97395-3.5	GCMSL	Amy Min Yang	02/08/11 11:40	Unload from Instrument
M97395-3.5	Amy Min Yang	VOC Ref #5	02/08/11 11:40	Return to Storage
M97395-4.2	Walk In Ref #22	Mahmoud Afzali	01/27/11 11:42	Retrieve from Storage
M97395-4.2	Mahmoud Afzali		01/28/11 11:13	Depleted

Accutest Internal Chain of Custody

Job Number: M97395
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL
Received: 01/26/11

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
M97395-4.3	VOC Ref #5	Amy Min Yang	02/03/11 10:11	Retrieve from Storage
M97395-4.3	Amy Min Yang	GCMSL	02/03/11 10:11	Load on Instrument
M97395-4.3	GCMSL	Amy Min Yang	02/08/11 11:40	Unload from Instrument
M97395-4.3	Amy Min Yang	VOC Ref #5	02/08/11 11:40	Return to Storage
M97395-5.1	Walk In Ref #22	Mahmoud Afzali	01/27/11 11:42	Retrieve from Storage
M97395-5.1	Mahmoud Afzali		01/28/11 11:13	Depleted
M97395-5.3	VOC Ref #5	Amy Min Yang	02/03/11 10:11	Retrieve from Storage
M97395-5.3	Amy Min Yang	GCMSL	02/03/11 10:11	Load on Instrument
M97395-5.3	GCMSL	Amy Min Yang	02/08/11 11:40	Unload from Instrument
M97395-5.3	Amy Min Yang	VOC Ref #5	02/08/11 11:40	Return to Storage
M97395-6.2	Walk In Ref #22	Mahmoud Afzali	01/27/11 11:42	Retrieve from Storage
M97395-6.2	Mahmoud Afzali		01/28/11 11:13	Depleted
M97395-6.3	VOC Ref #5	Amy Min Yang	02/03/11 10:11	Retrieve from Storage
M97395-6.3	Amy Min Yang	GCMSL	02/03/11 10:11	Load on Instrument
M97395-6.3	GCMSL	Amy Min Yang	02/04/11 11:04	Unload from Instrument
M97395-6.3	Amy Min Yang	VOC Ref #5	02/04/11 11:04	Return to Storage
M97395-7.1	Walk In Ref #22	Mahmoud Afzali	01/27/11 11:42	Retrieve from Storage
M97395-7.1	Mahmoud Afzali		01/28/11 11:13	Depleted
M97395-7.4	VOC Ref #5	Amy Min Yang	02/03/11 10:11	Retrieve from Storage
M97395-7.4	Amy Min Yang	GCMSL	02/03/11 10:11	Load on Instrument
M97395-7.4	GCMSL	Amy Min Yang	02/08/11 11:40	Unload from Instrument
M97395-7.4	Amy Min Yang	VOC Ref #5	02/08/11 11:40	Return to Storage
M97395-8.1	Walk In Ref #22	Mahmoud Afzali	01/27/11 11:42	Retrieve from Storage
M97395-8.1	Mahmoud Afzali		01/28/11 11:13	Depleted
M97395-8.3	VOC Ref #5	Jugal Patel	02/07/11 16:43	Retrieve from Storage
M97395-8.3	Jugal Patel	GCMSN	02/07/11 16:43	Load on Instrument
M97395-8.3	GCMSN	Jugal Patel	02/08/11 10:10	Unload from Instrument
M97395-8.3	Jugal Patel	VOC Ref #5	02/08/11 10:11	Return to Storage
M97395-8.4	VOC Ref #5	Jugal Patel	02/08/11 12:04	Retrieve from Storage
M97395-8.4	Jugal Patel	GCMSN	02/08/11 12:04	Load on Instrument
M97395-8.4	GCMSN	Jugal Patel	02/09/11 10:54	Unload from Instrument
M97395-8.4	Jugal Patel	VOC Ref #5	02/09/11 10:54	Return to Storage
M97395-8.5	VOC Ref #5	Amy Min Yang	02/03/11 10:11	Retrieve from Storage

Accutest Internal Chain of Custody

Job Number: M97395
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL
Received: 01/26/11

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
M97395-8.5	Amy Min Yang	GCMSL	02/03/11 10:11	Load on Instrument
M97395-8.5	GCMSL	Amy Min Yang	02/04/11 11:04	Unload from Instrument
M97395-8.5	Amy Min Yang	VOC Ref #5	02/04/11 11:04	Return to Storage
M97395-9.1	Walk In Ref #22	Mahmoud Afzali	01/27/11 11:42	Retrieve from Storage
M97395-9.1	Mahmoud Afzali		01/28/11 11:13	Depleted
M97395-9.3	VOC Ref #5	Jugal Patel	02/09/11 10:54	Retrieve from Storage
M97395-9.3	Jugal Patel	GCMSN	02/09/11 10:54	Load on Instrument
M97395-9.3	GCMSN	Jugal Patel	02/09/11 10:55	Unload from Instrument
M97395-9.3	Jugal Patel	VOC Ref #5	02/09/11 10:55	Return to Storage
M97395-9.4	VOC Ref #5	Amy Min Yang	02/03/11 10:11	Retrieve from Storage
M97395-9.4	Amy Min Yang	GCMSL	02/03/11 10:11	Load on Instrument
M97395-9.4	GCMSL	Amy Min Yang	02/08/11 11:40	Unload from Instrument
M97395-9.4	Amy Min Yang	VOC Ref #5	02/08/11 11:40	Return to Storage
M97395-10.1	Walk In Ref #22	Mahmoud Afzali	01/27/11 11:42	Retrieve from Storage
M97395-10.1	Mahmoud Afzali		01/28/11 11:13	Depleted
M97395-10.3	VOC Ref #5	Jugal Patel	02/09/11 10:54	Retrieve from Storage
M97395-10.3	Jugal Patel	GCMSN	02/09/11 10:54	Load on Instrument
M97395-10.3	GCMSN	Jugal Patel	02/09/11 10:55	Unload from Instrument
M97395-10.3	Jugal Patel	VOC Ref #5	02/09/11 10:55	Return to Storage
M97395-10.4	VOC Ref #5	Amy Min Yang	02/03/11 10:11	Retrieve from Storage
M97395-10.4	Amy Min Yang	GCMSL	02/03/11 10:11	Load on Instrument
M97395-10.4	GCMSL	Amy Min Yang	02/08/11 11:40	Unload from Instrument
M97395-10.4	Amy Min Yang	VOC Ref #5	02/08/11 11:40	Return to Storage
M97395-11.2	Walk In Ref #22	Mahmoud Afzali	01/27/11 11:42	Retrieve from Storage
M97395-11.2	Mahmoud Afzali		01/28/11 11:13	Depleted
M97395-11.3	VOC Ref #5	Jugal Patel	02/09/11 10:54	Retrieve from Storage
M97395-11.3	Jugal Patel	GCMSN	02/09/11 10:54	Load on Instrument
M97395-11.3	GCMSN	Jugal Patel	02/09/11 10:55	Unload from Instrument
M97395-11.3	Jugal Patel	VOC Ref #5	02/09/11 10:55	Return to Storage
M97395-11.4	VOC Ref #5	Amy Min Yang	02/03/11 10:11	Retrieve from Storage
M97395-11.4	Amy Min Yang	GCMSL	02/03/11 10:11	Load on Instrument
M97395-11.4	GCMSL	Amy Min Yang	02/08/11 11:40	Unload from Instrument
M97395-11.4	Amy Min Yang	VOC Ref #5	02/08/11 11:40	Return to Storage

New England ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: M97395
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSL1644-MB	L49356.D	1	02/03/11	AMY	n/a	n/a	MSL1644

The QC reported here applies to the following samples: Method: SW846 8260B

M97395-1, M97395-2, M97395-3, M97395-4, M97395-5, M97395-7, M97395-9, M97395-10, M97395-11

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	4.6	ug/l	
71-43-2	Benzene	ND	0.50	0.35	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.52	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.91	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.62	ug/l	
75-25-2	Bromoform	ND	1.0	0.73	ug/l	
74-83-9	Bromomethane	12.0	2.0	0.95	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.1	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.49	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.37	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.53	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.35	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.42	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.61	ug/l	
75-00-3	Chloroethane	ND	2.0	0.76	ug/l	
67-66-3	Chloroform	ND	1.0	0.72	ug/l	
74-87-3	Chloromethane	ND	2.0	0.81	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.58	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.67	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.3	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.86	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.76	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.74	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.77	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.81	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.61	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.63	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.74	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.70	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.66	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.74	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.83	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.73	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.44	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.34	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.23	ug/l	

Method Blank Summary

Job Number: M97395
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSL1644-MB	L49356.D	1	02/03/11	AMY	n/a	n/a	MSL1644

The QC reported here applies to the following samples: Method: SW846 8260B

M97395-1, M97395-2, M97395-3, M97395-4, M97395-5, M97395-7, M97395-9, M97395-10, M97395-11

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.61	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.56	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.5	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.51	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.45	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.54	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.3	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.94	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.75	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.43	ug/l	
100-42-5	Styrene	ND	5.0	0.68	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.64	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.89	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.39	ug/l	
108-88-3	Toluene	ND	1.0	0.74	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.57	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.35	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.72	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.49	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.47	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.61	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.62	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.51	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.51	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.86	ug/l	
	m,p-Xylene	ND	1.0	0.62	ug/l	
95-47-6	o-Xylene	ND	1.0	0.56	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	103%	70-130%
2037-26-5	Toluene-D8	100%	70-130%
460-00-4	4-Bromofluorobenzene	96%	70-130%

Method Blank Summary

Job Number: M97395
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSG4155-MB	G103071.D	1	02/07/11	EL	n/a	n/a	MSG4155

The QC reported here applies to the following samples: Method: SW846 8260B

M97395-6

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	4.6	ug/l	
71-43-2	Benzene	ND	0.50	0.35	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.52	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.91	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.62	ug/l	
75-25-2	Bromoform	ND	1.0	0.73	ug/l	
74-83-9	Bromomethane	ND	2.0	0.95	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.1	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.49	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.37	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.53	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.35	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.42	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.61	ug/l	
75-00-3	Chloroethane	ND	2.0	0.76	ug/l	
67-66-3	Chloroform	ND	1.0	0.72	ug/l	
74-87-3	Chloromethane	ND	2.0	0.81	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.58	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.67	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.3	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.86	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.76	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.74	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.77	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.81	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.61	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.63	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.74	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.70	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.66	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.74	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.83	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.73	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.44	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.34	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.23	ug/l	

Method Blank Summary

Job Number: M97395
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSG4155-MB	G103071.D	1	02/07/11	EL	n/a	n/a	MSG4155

The QC reported here applies to the following samples: Method: SW846 8260B

M97395-6

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.61	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.56	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.5	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.51	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.45	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.54	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.3	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.94	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.75	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.43	ug/l	
100-42-5	Styrene	ND	5.0	0.68	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.64	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.89	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.39	ug/l	
108-88-3	Toluene	ND	1.0	0.74	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.57	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.35	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.72	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.49	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.47	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.61	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.62	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.51	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.51	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.86	ug/l	
	m,p-Xylene	ND	1.0	0.62	ug/l	
95-47-6	o-Xylene	ND	1.0	0.56	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	99%	70-130%
2037-26-5	Toluene-D8	99%	70-130%
460-00-4	4-Bromofluorobenzene	100%	70-130%

Method Blank Summary

Job Number: M97395
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSN1863-MB	N49335.D	1	02/08/11	JP	n/a	n/a	MSN1863

The QC reported here applies to the following samples: Method: SW846 8260B

M97395-8, M97395-9, M97395-10, M97395-11

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	4.6	ug/l	
71-43-2	Benzene	ND	0.50	0.35	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.52	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.91	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.62	ug/l	
75-25-2	Bromoform	ND	1.0	0.73	ug/l	
74-83-9	Bromomethane	ND	2.0	0.95	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.1	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.49	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.37	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.53	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.35	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.42	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.61	ug/l	
75-00-3	Chloroethane	ND	2.0	0.76	ug/l	
67-66-3	Chloroform	ND	1.0	0.72	ug/l	
74-87-3	Chloromethane	ND	2.0	0.81	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.58	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.67	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.3	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.86	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.76	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.74	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.77	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.81	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.61	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.63	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.74	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.70	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.66	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.74	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.83	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.73	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.44	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.34	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.23	ug/l	

Method Blank Summary

Job Number: M97395
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSN1863-MB	N49335.D	1	02/08/11	JP	n/a	n/a	MSN1863

The QC reported here applies to the following samples: Method: SW846 8260B

M97395-8, M97395-9, M97395-10, M97395-11

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.61	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.56	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.5	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.51	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.45	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.54	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.3	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.94	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.75	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.43	ug/l	
100-42-5	Styrene	ND	5.0	0.68	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.64	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.89	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.39	ug/l	
108-88-3	Toluene	ND	1.0	0.74	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.57	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.35	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.72	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.49	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.47	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.61	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.62	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.51	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.51	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.86	ug/l	
	m,p-Xylene	ND	1.0	0.62	ug/l	
95-47-6	o-Xylene	ND	1.0	0.56	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	101%	70-130%
2037-26-5	Toluene-D8	104%	70-130%
460-00-4	4-Bromofluorobenzene	105%	70-130%

Method Blank Summary

Job Number: M97395
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSN1863-MB	N49335.D	1	02/08/11	JP	n/a	n/a	MSN1863

The QC reported here applies to the following samples: Method:

M97395-8, M97395-9, M97395-10, M97395-11

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Blank Spike Summary

Job Number: M97395
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSG4155-BS	G103069.D	1	02/07/11	EL	n/a	n/a	MSG4155

The QC reported here applies to the following samples: Method: SW846 8260B

M97395-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	50	56.3	113	70-130
71-43-2	Benzene	50	46.4	93	70-130
108-86-1	Bromobenzene	50	47.9	96	70-130
74-97-5	Bromochloromethane	50	45.9	92	70-130
75-27-4	Bromodichloromethane	50	47.2	94	70-130
75-25-2	Bromoform	50	50.8	102	70-130
74-83-9	Bromomethane	50	42.0	84	70-130
78-93-3	2-Butanone (MEK)	50	49.0	98	70-130
104-51-8	n-Butylbenzene	50	50.5	101	70-130
135-98-8	sec-Butylbenzene	50	48.8	98	70-130
98-06-6	tert-Butylbenzene	50	46.8	94	70-130
75-15-0	Carbon disulfide	50	47.5	95	70-130
56-23-5	Carbon tetrachloride	50	47.6	95	70-130
108-90-7	Chlorobenzene	50	47.2	94	70-130
75-00-3	Chloroethane	50	43.1	86	70-130
67-66-3	Chloroform	50	46.6	93	70-130
74-87-3	Chloromethane	50	45.5	91	70-130
95-49-8	o-Chlorotoluene	50	46.1	92	70-130
106-43-4	p-Chlorotoluene	50	48.1	96	70-130
96-12-8	1,2-Dibromo-3-chloropropane	50	47.5	95	70-130
124-48-1	Dibromochloromethane	50	49.6	99	70-130
106-93-4	1,2-Dibromoethane	50	46.9	94	70-130
95-50-1	1,2-Dichlorobenzene	50	48.7	97	70-130
541-73-1	1,3-Dichlorobenzene	50	48.2	96	70-130
106-46-7	1,4-Dichlorobenzene	50	48.4	97	70-130
75-71-8	Dichlorodifluoromethane	50	33.7	67* [a]	70-130
75-34-3	1,1-Dichloroethane	50	46.5	93	70-130
107-06-2	1,2-Dichloroethane	50	47.8	96	70-130
75-35-4	1,1-Dichloroethene	50	50.0	100	70-130
156-59-2	cis-1,2-Dichloroethene	50	47.9	96	70-130
156-60-5	trans-1,2-Dichloroethene	50	48.9	98	70-130
78-87-5	1,2-Dichloropropane	50	46.4	93	70-130
142-28-9	1,3-Dichloropropane	50	47.5	95	70-130
594-20-7	2,2-Dichloropropane	50	46.7	93	70-130
563-58-6	1,1-Dichloropropene	50	48.8	98	70-130
10061-01-5	cis-1,3-Dichloropropene	50	50.0	100	70-130

Blank Spike Summary

Job Number: M97395
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSG4155-BS	G103069.D	1	02/07/11	EL	n/a	n/a	MSG4155

The QC reported here applies to the following samples: Method: SW846 8260B

M97395-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-02-6	trans-1,3-Dichloropropene	50	53.8	108	70-130
100-41-4	Ethylbenzene	50	46.6	93	70-130
87-68-3	Hexachlorobutadiene	50	52.8	106	70-130
591-78-6	2-Hexanone	50	46.2	92	70-130
98-82-8	Isopropylbenzene	50	53.7	107	70-130
99-87-6	p-Isopropyltoluene	50	49.5	99	70-130
1634-04-4	Methyl Tert Butyl Ether	50	46.6	93	70-130
108-10-1	4-Methyl-2-pentanone (MIBK)	50	47.9	96	70-130
74-95-3	Methylene bromide	50	47.8	96	70-130
75-09-2	Methylene chloride	50	45.9	92	70-130
103-65-1	n-Propylbenzene	50	47.0	94	70-130
100-42-5	Styrene	50	48.0	96	70-130
630-20-6	1,1,1,2-Tetrachloroethane	50	47.0	94	70-130
79-34-5	1,1,2,2-Tetrachloroethane	50	47.7	95	70-130
127-18-4	Tetrachloroethene	50	47.9	96	70-130
108-88-3	Toluene	50	48.1	96	70-130
87-61-6	1,2,3-Trichlorobenzene	50	50.4	101	70-130
120-82-1	1,2,4-Trichlorobenzene	50	50.8	102	70-130
71-55-6	1,1,1-Trichloroethane	50	45.8	92	70-130
79-00-5	1,1,2-Trichloroethane	50	46.1	92	70-130
79-01-6	Trichloroethene	50	46.1	92	70-130
75-69-4	Trichlorofluoromethane	50	45.1	90	70-130
96-18-4	1,2,3-Trichloropropane	50	48.7	97	70-130
95-63-6	1,2,4-Trimethylbenzene	50	47.5	95	70-130
108-67-8	1,3,5-Trimethylbenzene	50	47.4	95	70-130
108-05-4	Vinyl Acetate	50	37.7	75	70-130
75-01-4	Vinyl chloride	50	42.0	84	70-130
	m,p-Xylene	100	93.5	94	70-130
95-47-6	o-Xylene	50	47.4	95	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	100%	70-130%
2037-26-5	Toluene-D8	99%	70-130%
460-00-4	4-Bromofluorobenzene	95%	70-130%

Blank Spike Summary

Job Number: M97395
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSG4155-BS	G103069.D	1	02/07/11	EL	n/a	n/a	MSG4155

The QC reported here applies to the following samples: Method: SW846 8260B

M97395-6

(a) Outside control limits. Blank Spike meets program technical requirements.

Blank Spike/Blank Spike Duplicate Summary

Job Number: M97395
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSL1644-BS	L49353.D	1	02/03/11	AMY	n/a	n/a	MSL1644
MSL1644-BSD	L49354.D	1	02/03/11	AMY	n/a	n/a	MSL1644

The QC reported here applies to the following samples: Method: SW846 8260B

M97395-1, M97395-2, M97395-3, M97395-4, M97395-5, M97395-7, M97395-9, M97395-10, M97395-11

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	50	46.1	92	42.9	86	7	70-130/25
71-43-2	Benzene	50	50.3	101	48.8	98	3	70-130/25
108-86-1	Bromobenzene	50	49.3	99	49.8	100	1	70-130/25
74-97-5	Bromochloromethane	50	49.7	99	49.9	100	0	70-130/25
75-27-4	Bromodichloromethane	50	55.2	110	55.3	111	0	70-130/25
75-25-2	Bromoform	50	43.7	87	44.2	88	1	70-130/25
74-83-9	Bromomethane	50	40.6	81	41.3	83	2	70-130/25
78-93-3	2-Butanone (MEK)	50	66.2	132* [a]	58.7	117	12	70-130/25
104-51-8	n-Butylbenzene	50	55.6	111	56.4	113	1	70-130/25
135-98-8	sec-Butylbenzene	50	54.1	108	54.4	109	1	70-130/25
98-06-6	tert-Butylbenzene	50	55.0	110	55.6	111	1	70-130/25
75-15-0	Carbon disulfide	50	60.0	120	57.3	115	5	70-130/25
56-23-5	Carbon tetrachloride	50	56.2	112	54.8	110	3	70-130/25
108-90-7	Chlorobenzene	50	48.9	98	47.9	96	2	70-130/25
75-00-3	Chloroethane	50	44.6	89	41.4	83	7	70-130/25
67-66-3	Chloroform	50	55.1	110	53.4	107	3	70-130/25
74-87-3	Chloromethane	50	58.1	116	56.4	113	3	70-130/25
95-49-8	o-Chlorotoluene	50	49.7	99	50.1	100	1	70-130/25
106-43-4	p-Chlorotoluene	50	52.7	105	53.5	107	2	70-130/25
96-12-8	1,2-Dibromo-3-chloropropane	50	60.0	120	62.0	124	3	70-130/25
124-48-1	Dibromochloromethane	50	51.1	102	49.8	100	3	70-130/25
106-93-4	1,2-Dibromoethane	50	50.1	100	50.2	100	0	70-130/25
95-50-1	1,2-Dichlorobenzene	50	52.5	105	52.5	105	0	70-130/25
541-73-1	1,3-Dichlorobenzene	50	52.8	106	52.8	106	0	70-130/25
106-46-7	1,4-Dichlorobenzene	50	48.6	97	48.8	98	0	70-130/25
75-71-8	Dichlorodifluoromethane	50	59.7	119	56.4	113	6	70-130/25
75-34-3	1,1-Dichloroethane	50	56.4	113	55.7	111	1	70-130/25
107-06-2	1,2-Dichloroethane	50	55.3	111	53.8	108	3	70-130/25
75-35-4	1,1-Dichloroethene	50	51.4	103	51.3	103	0	70-130/25
156-59-2	cis-1,2-Dichloroethene	50	51.9	104	51.9	104	0	70-130/25
156-60-5	trans-1,2-Dichloroethene	50	51.9	104	50.6	101	3	70-130/25
78-87-5	1,2-Dichloropropane	50	55.6	111	55.1	110	1	70-130/25
142-28-9	1,3-Dichloropropane	50	51.3	103	48.9	98	5	70-130/25
594-20-7	2,2-Dichloropropane	50	54.8	110	51.9	104	5	70-130/25
563-58-6	1,1-Dichloropropene	50	59.0	118	56.9	114	4	70-130/25
10061-01-5	cis-1,3-Dichloropropene	50	49.0	98	49.3	99	1	70-130/25

Blank Spike/Blank Spike Duplicate Summary

Job Number: M97395
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSL1644-BS	L49353.D	1	02/03/11	AMY	n/a	n/a	MSL1644
MSL1644-BSD	L49354.D	1	02/03/11	AMY	n/a	n/a	MSL1644

The QC reported here applies to the following samples: Method: SW846 8260B

M97395-1, M97395-2, M97395-3, M97395-4, M97395-5, M97395-7, M97395-9, M97395-10, M97395-11

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
10061-02-6	trans-1,3-Dichloropropene	50	47.9	96	47.9	96	0	70-130/25
100-41-4	Ethylbenzene	50	47.4	95	44.9	90	5	70-130/25
87-68-3	Hexachlorobutadiene	50	59.7	119	60.3	121	1	70-130/25
591-78-6	2-Hexanone	50	62.6	125	64.3	129	3	70-130/25
98-82-8	Isopropylbenzene	50	59.8	120	60.1	120	1	70-130/25
99-87-6	p-Isopropyltoluene	50	53.5	107	53.8	108	1	70-130/25
1634-04-4	Methyl Tert Butyl Ether	50	40.1	80	39.9	80	1	70-130/25
108-10-1	4-Methyl-2-pentanone (MIBK)	50	71.1	142* [a]	73.0	146* [a]	3	70-130/25
74-95-3	Methylene bromide	50	43.7	87	43.8	88	0	70-130/25
75-09-2	Methylene chloride	50	48.4	97	47.5	95	2	70-130/25
103-65-1	n-Propylbenzene	50	52.3	105	52.2	104	0	70-130/25
100-42-5	Styrene	50	50.2	100	49.0	98	2	70-130/25
630-20-6	1,1,1,2-Tetrachloroethane	50	50.8	102	50.6	101	0	70-130/25
79-34-5	1,1,2,2-Tetrachloroethane	50	53.0	106	54.5	109	3	70-130/25
127-18-4	Tetrachloroethene	50	52.9	106	51.6	103	2	70-130/25
108-88-3	Toluene	50	53.5	107	51.9	104	3	70-130/25
87-61-6	1,2,3-Trichlorobenzene	50	53.7	107	56.1	112	4	70-130/25
120-82-1	1,2,4-Trichlorobenzene	50	55.6	111	57.8	116	4	70-130/25
71-55-6	1,1,1-Trichloroethane	50	60.3	121	58.4	117	3	70-130/25
79-00-5	1,1,2-Trichloroethane	50	53.9	108	54.1	108	0	70-130/25
79-01-6	Trichloroethene	50	53.3	107	52.0	104	2	70-130/25
75-69-4	Trichlorofluoromethane	50	45.6	91	43.5	87	5	70-130/25
96-18-4	1,2,3-Trichloropropane	50	48.3	97	50.3	101	4	70-130/25
95-63-6	1,2,4-Trimethylbenzene	50	49.7	99	50.6	101	2	70-130/25
108-67-8	1,3,5-Trimethylbenzene	50	51.7	103	52.1	104	1	70-130/25
108-05-4	Vinyl Acetate	50	49.4	99	48.4	97	2	70-130/25
75-01-4	Vinyl chloride	50	47.3	95	45.4	91	4	70-130/25
	m,p-Xylene	100	91.9	92	87.5	88	5	70-130/25
95-47-6	o-Xylene	50	47.4	95	45.2	90	5	70-130/25

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	96%	98%	70-130%
2037-26-5	Toluene-D8	97%	100%	70-130%
460-00-4	4-Bromofluorobenzene	90%	95%	70-130%

Blank Spike/Blank Spike Duplicate Summary

Job Number: M97395
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSL1644-BS	L49353.D	1	02/03/11	AMY	n/a	n/a	MSL1644
MSL1644-BSD	L49354.D	1	02/03/11	AMY	n/a	n/a	MSL1644

The QC reported here applies to the following samples: Method: SW846 8260B

M97395-1, M97395-2, M97395-3, M97395-4, M97395-5, M97395-7, M97395-9, M97395-10, M97395-11

(a) Outside control limits. Associated samples are non-detect for this compound.

Blank Spike/Blank Spike Duplicate Summary

Job Number: M97395
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSN1863-BS	N49332.D	1	02/08/11	JP	n/a	n/a	MSN1863
MSN1863-BSD	N49333.D	1	02/08/11	JP	n/a	n/a	MSN1863

The QC reported here applies to the following samples: Method: SW846 8260B

M97395-8, M97395-9, M97395-10, M97395-11

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	50	61.4	123	60.6	121	1	70-130/25
71-43-2	Benzene	50	52.7	105	51.2	102	3	70-130/25
108-86-1	Bromobenzene	50	52.6	105	52.9	106	1	70-130/25
74-97-5	Bromochloromethane	50	50.8	102	48.8	98	4	70-130/25
75-27-4	Bromodichloromethane	50	55.7	111	53.7	107	4	70-130/25
75-25-2	Bromoform	50	46.2	92	47.6	95	3	70-130/25
74-83-9	Bromomethane	50	46.5	93	45.0	90	3	70-130/25
78-93-3	2-Butanone (MEK)	50	55.0	110	58.0	116	5	70-130/25
104-51-8	n-Butylbenzene	50	57.4	115	55.3	111	4	70-130/25
135-98-8	sec-Butylbenzene	50	54.9	110	53.2	106	3	70-130/25
98-06-6	tert-Butylbenzene	50	54.3	109	52.3	105	4	70-130/25
75-15-0	Carbon disulfide	50	50.3	101	48.9	98	3	70-130/25
56-23-5	Carbon tetrachloride	50	57.3	115	54.3	109	5	70-130/25
108-90-7	Chlorobenzene	50	51.0	102	51.2	102	0	70-130/25
75-00-3	Chloroethane	50	49.5	99	46.4	93	6	70-130/25
67-66-3	Chloroform	50	51.7	103	50.3	101	3	70-130/25
74-87-3	Chloromethane	50	45.4	91	43.3	87	5	70-130/25
95-49-8	o-Chlorotoluene	50	52.1	104	51.2	102	2	70-130/25
106-43-4	p-Chlorotoluene	50	55.4	111	53.9	108	3	70-130/25
96-12-8	1,2-Dibromo-3-chloropropane	50	49.8	100	51.5	103	3	70-130/25
124-48-1	Dibromochloromethane	50	50.0	100	50.5	101	1	70-130/25
106-93-4	1,2-Dibromoethane	50	53.1	106	55.2	110	4	70-130/25
95-50-1	1,2-Dichlorobenzene	50	51.7	103	53.0	106	2	70-130/25
541-73-1	1,3-Dichlorobenzene	50	53.9	108	52.8	106	2	70-130/25
106-46-7	1,4-Dichlorobenzene	50	50.6	101	50.9	102	1	70-130/25
75-71-8	Dichlorodifluoromethane	50	40.3	81	38.5	77	5	70-130/25
75-34-3	1,1-Dichloroethane	50	50.9	102	49.4	99	3	70-130/25
107-06-2	1,2-Dichloroethane	50	52.2	104	50.8	102	3	70-130/25
75-35-4	1,1-Dichloroethene	50	51.4	103	49.5	99	4	70-130/25
156-59-2	cis-1,2-Dichloroethene	50	50.1	100	49.9	100	0	70-130/25
156-60-5	trans-1,2-Dichloroethene	50	50.6	101	49.1	98	3	70-130/25
78-87-5	1,2-Dichloropropane	50	52.3	105	51.0	102	3	70-130/25
142-28-9	1,3-Dichloropropane	50	51.6	103	52.1	104	1	70-130/25
594-20-7	2,2-Dichloropropane	50	61.3	123	57.0	114	7	70-130/25
563-58-6	1,1-Dichloropropene	50	54.9	110	51.6	103	6	70-130/25
10061-01-5	cis-1,3-Dichloropropene	50	52.8	106	51.3	103	3	70-130/25

Blank Spike/Blank Spike Duplicate Summary

Job Number: M97395
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSN1863-BS	N49332.D	1	02/08/11	JP	n/a	n/a	MSN1863
MSN1863-BSD	N49333.D	1	02/08/11	JP	n/a	n/a	MSN1863

The QC reported here applies to the following samples: Method: SW846 8260B

M97395-8, M97395-9, M97395-10, M97395-11

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
10061-02-6	trans-1,3-Dichloropropene	50	55.6	111	54.7	109	2	70-130/25
100-41-4	Ethylbenzene	50	53.3	107	52.3	105	2	70-130/25
87-68-3	Hexachlorobutadiene	50	56.6	113	53.1	106	6	70-130/25
591-78-6	2-Hexanone	50	52.3	105	54.5	109	4	70-130/25
98-82-8	Isopropylbenzene	50	62.3	125	60.9	122	2	70-130/25
99-87-6	p-Isopropyltoluene	50	54.2	108	52.8	106	3	70-130/25
1634-04-4	Methyl Tert Butyl Ether	50	51.4	103	51.5	103	0	70-130/25
108-10-1	4-Methyl-2-pentanone (MIBK)	50	51.0	102	52.7	105	3	70-130/25
74-95-3	Methylene bromide	50	53.9	108	52.1	104	3	70-130/25
75-09-2	Methylene chloride	50	47.1	94	44.9	90	5	70-130/25
103-65-1	n-Propylbenzene	50	55.6	111	54.3	109	2	70-130/25
100-42-5	Styrene	50	54.0	108	54.6	109	1	70-130/25
630-20-6	1,1,1,2-Tetrachloroethane	50	52.9	106	54.0	108	2	70-130/25
79-34-5	1,1,2,2-Tetrachloroethane	50	51.4	103	53.5	107	4	70-130/25
127-18-4	Tetrachloroethene	50	53.0	106	52.0	104	2	70-130/25
108-88-3	Toluene	50	52.1	104	50.3	101	4	70-130/25
87-61-6	1,2,3-Trichlorobenzene	50	56.3	113	56.7	113	1	70-130/25
120-82-1	1,2,4-Trichlorobenzene	50	56.5	113	55.9	112	1	70-130/25
71-55-6	1,1,1-Trichloroethane	50	55.0	110	53.2	106	3	70-130/25
79-00-5	1,1,2-Trichloroethane	50	51.5	103	52.1	104	1	70-130/25
79-01-6	Trichloroethene	50	51.3	103	49.1	98	4	70-130/25
75-69-4	Trichlorofluoromethane	50	47.5	95	45.2	90	5	70-130/25
96-18-4	1,2,3-Trichloropropane	50	52.9	106	54.0	108	2	70-130/25
95-63-6	1,2,4-Trimethylbenzene	50	53.1	106	51.7	103	3	70-130/25
108-67-8	1,3,5-Trimethylbenzene	50	54.1	108	52.7	105	3	70-130/25
108-05-4	Vinyl Acetate	50	45.9	92	45.2	90	2	70-130/25
75-01-4	Vinyl chloride	50	46.3	93	43.7	87	6	70-130/25
	m,p-Xylene	100	108	108	106	106	2	70-130/25
95-47-6	o-Xylene	50	53.9	108	53.1	106	1	70-130/25

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	104%	101%	70-130%
2037-26-5	Toluene-D8	106%	105%	70-130%
460-00-4	4-Bromofluorobenzene	102%	101%	70-130%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: M97395
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
M97395-2MS	L49376.D	1	02/03/11	AMY	n/a	n/a	MSL1644
M97395-2MSD	L49377.D	1	02/03/11	AMY	n/a	n/a	MSL1644
M97395-2	L49366.D	1	02/03/11	AMY	n/a	n/a	MSL1644

The QC reported here applies to the following samples: Method: SW846 8260B

M97395-1, M97395-2, M97395-3, M97395-4, M97395-5, M97395-7, M97395-9, M97395-10, M97395-11

CAS No.	Compound	M97395-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		50	38.0	76	37.0	74	3	70-130/30
71-43-2	Benzene	ND		50	383	766* [a]	228	456* [a]	51* [b]	70-130/30
108-86-1	Bromobenzene	ND		50	48.3	97	50.7	101	5	70-130/30
74-97-5	Bromochloromethane	ND		50	48.4	97	47.7	95	1	70-130/30
75-27-4	Bromodichloromethane	ND		50	49.3	99	48.9	98	1	70-130/30
75-25-2	Bromoform	ND		50	45.0	90	47.3	95	5	70-130/30
74-83-9	Bromomethane	ND		50	35.6	71	45.3	91	24	70-130/30
78-93-3	2-Butanone (MEK)	ND		50	47.5	95	47.9	96	1	70-130/30
104-51-8	n-Butylbenzene	ND		50	41.5	83	44.6	89	7	70-130/30
135-98-8	sec-Butylbenzene	ND		50	44.1	88	46.2	92	5	70-130/30
98-06-6	tert-Butylbenzene	ND		50	45.3	91	47.1	94	4	70-130/30
75-15-0	Carbon disulfide	ND		50	47.7	95	45.5	91	5	70-130/30
56-23-5	Carbon tetrachloride	ND		50	50.4	101	48.3	97	4	70-130/30
108-90-7	Chlorobenzene	ND		50	51.9	104	52.8	106	2	70-130/30
75-00-3	Chloroethane	ND		50	43.5	87	41.0	82	6	70-130/30
67-66-3	Chloroform	ND		50	45.1	90	44.3	89	2	70-130/30
74-87-3	Chloromethane	ND		50	46.6	93	46.1	92	1	70-130/30
95-49-8	o-Chlorotoluene	ND		50	42.4	85	43.5	87	3	70-130/30
106-43-4	p-Chlorotoluene	ND		50	45.0	90	46.1	92	2	70-130/30
96-12-8	1,2-Dibromo-3-chloropropane	ND		50	44.5	89	47.3	95	6	70-130/30
124-48-1	Dibromochloromethane	ND		50	52.4	105	53.9	108	3	70-130/30
106-93-4	1,2-Dibromoethane	ND		50	53.1	106	54.6	109	3	70-130/30
95-50-1	1,2-Dichlorobenzene	ND		50	49.8	100	51.7	103	4	70-130/30
541-73-1	1,3-Dichlorobenzene	ND		50	48.0	96	51.9	104	8	70-130/30
106-46-7	1,4-Dichlorobenzene	ND		50	45.4	91	47.8	96	5	70-130/30
75-71-8	Dichlorodifluoromethane	ND		50	43.1	86	41.4	83	4	70-130/30
75-34-3	1,1-Dichloroethane	ND		50	43.8	88	41.3	83	6	70-130/30
107-06-2	1,2-Dichloroethane	ND		50	46.9	94	45.7	91	3	70-130/30
75-35-4	1,1-Dichloroethene	ND		50	48.9	98	45.7	91	7	70-130/30
156-59-2	cis-1,2-Dichloroethene	ND		50	46.7	93	45.2	90	3	70-130/30
156-60-5	trans-1,2-Dichloroethene	ND		50	44.2	88	44.4	89	0	70-130/30
78-87-5	1,2-Dichloropropane	ND		50	46.2	92	44.4	89	4	70-130/30
142-28-9	1,3-Dichloropropane	ND		50	47.3	95	48.2	96	2	70-130/30
594-20-7	2,2-Dichloropropane	ND		50	41.3	83	35.8	72	14	70-130/30
563-58-6	1,1-Dichloropropene	ND		50	51.2	102	48.8	98	5	70-130/30
10061-01-5	cis-1,3-Dichloropropene	ND		50	40.9	82	41.6	83	2	70-130/30

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: M97395
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
M97395-2MS	L49376.D	1	02/03/11	AMY	n/a	n/a	MSL1644
M97395-2MSD	L49377.D	1	02/03/11	AMY	n/a	n/a	MSL1644
M97395-2	L49366.D	1	02/03/11	AMY	n/a	n/a	MSL1644

The QC reported here applies to the following samples: Method: SW846 8260B

M97395-1, M97395-2, M97395-3, M97395-4, M97395-5, M97395-7, M97395-9, M97395-10, M97395-11

CAS No.	Compound	M97395-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-02-6	trans-1,3-Dichloropropene	ND		50	38.4	77	39.4	79	3	70-130/30
100-41-4	Ethylbenzene	ND		50	46.5	93	46.8	94	1	70-130/30
87-68-3	Hexachlorobutadiene	ND		50	49.3	99	55.7	111	12	70-130/30
591-78-6	2-Hexanone	ND		50	47.4	95	49.5	99	4	70-130/30
98-82-8	Isopropylbenzene	ND		50	52.1	104	53.7	107	3	70-130/30
99-87-6	p-Isopropyltoluene	ND		50	45.4	91	48.8	98	7	70-130/30
1634-04-4	Methyl Tert Butyl Ether	ND		50	34.3	69* c	33.7	67* c	2	70-130/30
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		50	51.1	102	52.4	105	3	70-130/30
74-95-3	Methylene bromide	ND		50	41.8	84	40.3	81	4	70-130/30
75-09-2	Methylene chloride	ND		50	43.8	88	44.2	88	1	70-130/30
103-65-1	n-Propylbenzene	ND		50	42.8	86	44.2	88	3	70-130/30
100-42-5	Styrene	ND		50	51.4	103	54.4	109	6	70-130/30
630-20-6	1,1,1,2-Tetrachloroethane	ND		50	52.7	105	53.6	107	2	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	ND		50	43.5	87	44.4	89	2	70-130/30
127-18-4	Tetrachloroethene	ND		50	59.2	118	59.5	119	1	70-130/30
108-88-3	Toluene	ND		50	51.1	102	50.1	100	2	70-130/30
87-61-6	1,2,3-Trichlorobenzene	ND		50	48.2	96	54.6	109	12	70-130/30
120-82-1	1,2,4-Trichlorobenzene	ND		50	51.8	104	56.8	114	9	70-130/30
71-55-6	1,1,1-Trichloroethane	ND		50	49.5	99	46.6	93	6	70-130/30
79-00-5	1,1,2-Trichloroethane	ND		50	51.2	102	51.0	102	0	70-130/30
79-01-6	Trichloroethene	ND		50	49.2	98	48.4	97	2	70-130/30
75-69-4	Trichlorofluoromethane	ND		50	38.3	77	37.9	76	1	70-130/30
96-18-4	1,2,3-Trichloropropane	ND		50	38.1	76	39.4	79	3	70-130/30
95-63-6	1,2,4-Trimethylbenzene	ND		50	44.2	88	45.7	91	3	70-130/30
108-67-8	1,3,5-Trimethylbenzene	ND		50	45.1	90	46.4	93	3	70-130/30
108-05-4	Vinyl Acetate	ND		50	35.3	71	34.6	69* c	2	70-130/30
75-01-4	Vinyl chloride	ND		50	42.5	85	40.6	81	5	70-130/30
	m,p-Xylene	ND		100	95.9	96	96.0	96	0	70-130/30
95-47-6	o-Xylene	ND		50	50.5	101	51.5	103	2	70-130/30

CAS No.	Surrogate Recoveries	MS	MSD	M97395-2	Limits
1868-53-7	Dibromofluoromethane	89%	85%	102%	70-130%
2037-26-5	Toluene-D8	99%	97%	100%	70-130%
460-00-4	4-Bromofluorobenzene	86%	84%	91%	70-130%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: M97395
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
M97395-2MS	L49376.D	1	02/03/11	AMY	n/a	n/a	MSL1644
M97395-2MSD	L49377.D	1	02/03/11	AMY	n/a	n/a	MSL1644
M97395-2	L49366.D	1	02/03/11	AMY	n/a	n/a	MSL1644

The QC reported here applies to the following samples: Method: SW846 8260B

M97395-1, M97395-2, M97395-3, M97395-4, M97395-5, M97395-7, M97395-9, M97395-10, M97395-11

(a) Outside control limits due to possible sample carryover.
(b) High RPD due to possible matrix interference and/or sample non-homogeneity.
(c) Outside control limits due to possible matrix interference. Refer to Blank Spike.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: M97395
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
M97501-3MS	G103081.D	1	02/07/11	EL	n/a	n/a	MSG4155
M97501-3MSD	G103082.D	1	02/07/11	EL	n/a	n/a	MSG4155
M97501-3	G103079.D	1	02/07/11	EL	n/a	n/a	MSG4155

The QC reported here applies to the following samples: Method: SW846 8260B

M97395-6

CAS No.	Compound	M97501-3 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		50	51.0	102	53.3	107	4	70-130/30
71-43-2	Benzene	ND		50	52.0	104	50.9	102	2	70-130/30
108-86-1	Bromobenzene	ND		50	51.2	102	51.9	104	1	70-130/30
74-97-5	Bromochloromethane	ND		50	50.4	101	50.9	102	1	70-130/30
75-27-4	Bromodichloromethane	ND		50	51.8	104	50.7	101	2	70-130/30
75-25-2	Bromoform	ND		50	50.1	100	50.8	102	1	70-130/30
74-83-9	Bromomethane	ND		50	46.4	93	46.8	94	1	70-130/30
78-93-3	2-Butanone (MEK)	ND		50	50.9	102	51.0	102	0	70-130/30
104-51-8	n-Butylbenzene	ND		50	53.4	107	53.6	107	0	70-130/30
135-98-8	sec-Butylbenzene	ND		50	52.5	105	53.0	106	1	70-130/30
98-06-6	tert-Butylbenzene	ND		50	50.0	100	51.4	103	3	70-130/30
75-15-0	Carbon disulfide	ND		50	43.1	86	43.8	88	2	70-130/30
56-23-5	Carbon tetrachloride	ND		50	50.7	101	51.1	102	1	70-130/30
108-90-7	Chlorobenzene	ND		50	51.1	102	50.0	100	2	70-130/30
75-00-3	Chloroethane	ND		50	48.0	96	48.3	97	1	70-130/30
67-66-3	Chloroform	ND		50	52.0	104	52.1	104	0	70-130/30
74-87-3	Chloromethane	ND		50	51.5	103	52.0	104	1	70-130/30
95-49-8	o-Chlorotoluene	ND		50	50.4	101	50.6	101	0	70-130/30
106-43-4	p-Chlorotoluene	ND		50	51.7	103	52.1	104	1	70-130/30
96-12-8	1,2-Dibromo-3-chloropropane	ND		50	51.5	103	52.6	105	2	70-130/30
124-48-1	Dibromochloromethane	ND		50	50.7	101	50.0	100	1	70-130/30
106-93-4	1,2-Dibromoethane	ND		50	50.3	101	50.6	101	1	70-130/30
95-50-1	1,2-Dichlorobenzene	ND		50	52.1	104	52.5	105	1	70-130/30
541-73-1	1,3-Dichlorobenzene	ND		50	51.6	103	51.9	104	1	70-130/30
106-46-7	1,4-Dichlorobenzene	ND		50	51.6	103	51.8	104	0	70-130/30
75-71-8	Dichlorodifluoromethane	ND		50	38.7	77	39.3	79	2	70-130/30
75-34-3	1,1-Dichloroethane	ND		50	51.5	103	52.3	105	2	70-130/30
107-06-2	1,2-Dichloroethane	ND		50	53.0	106	53.1	106	0	70-130/30
75-35-4	1,1-Dichloroethene	ND		50	57.1	114	56.9	114	0	70-130/30
156-59-2	cis-1,2-Dichloroethene	ND		50	53.0	106	53.6	107	1	70-130/30
156-60-5	trans-1,2-Dichloroethene	ND		50	54.4	109	54.9	110	1	70-130/30
78-87-5	1,2-Dichloropropane	ND		50	52.2	104	51.1	102	2	70-130/30
142-28-9	1,3-Dichloropropane	ND		50	51.0	102	51.2	102	0	70-130/30
594-20-7	2,2-Dichloropropane	ND		50	50.7	101	50.0	100	1	70-130/30
563-58-6	1,1-Dichloropropene	ND		50	54.1	108	52.9	106	2	70-130/30
10061-01-5	cis-1,3-Dichloropropene	ND		50	52.4	105	51.8	104	1	70-130/30

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: M97395
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
M97501-3MS	G103081.D	1	02/07/11	EL	n/a	n/a	MSG4155
M97501-3MSD	G103082.D	1	02/07/11	EL	n/a	n/a	MSG4155
M97501-3	G103079.D	1	02/07/11	EL	n/a	n/a	MSG4155

The QC reported here applies to the following samples: Method: SW846 8260B

M97395-6

CAS No.	Compound	M97501-3 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-02-6	trans-1,3-Dichloropropene	ND		50	56.7	113	55.9	112	1	70-130/30
100-41-4	Ethylbenzene	ND		50	50.6	101	50.4	101	0	70-130/30
87-68-3	Hexachlorobutadiene	ND		50	53.2	106	54.0	108	1	70-130/30
591-78-6	2-Hexanone	ND		50	47.2	94	49.0	98	4	70-130/30
98-82-8	Isopropylbenzene	ND		50	58.4	117	59.2	118	1	70-130/30
99-87-6	p-Isopropyltoluene	ND		50	53.4	107	53.1	106	1	70-130/30
1634-04-4	Methyl Tert Butyl Ether	ND		50	50.6	101	51.0	102	1	70-130/30
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		50	52.2	104	52.8	106	1	70-130/30
74-95-3	Methylene bromide	ND		50	52.3	105	52.4	105	0	70-130/30
75-09-2	Methylene chloride	ND		50	51.4	103	51.6	103	0	70-130/30
103-65-1	n-Propylbenzene	ND		50	51.2	102	51.8	104	1	70-130/30
100-42-5	Styrene	ND		50	51.4	103	50.9	102	1	70-130/30
630-20-6	1,1,1,2-Tetrachloroethane	ND		50	50.0	100	50.2	100	0	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	ND		50	51.7	103	52.4	105	1	70-130/30
127-18-4	Tetrachloroethene	ND		50	52.3	105	51.1	102	2	70-130/30
108-88-3	Toluene	ND		50	52.6	105	52.1	104	1	70-130/30
87-61-6	1,2,3-Trichlorobenzene	ND		50	50.8	102	52.1	104	3	70-130/30
120-82-1	1,2,4-Trichlorobenzene	ND		50	50.6	101	51.5	103	2	70-130/30
71-55-6	1,1,1-Trichloroethane	ND		50	50.9	102	51.9	104	2	70-130/30
79-00-5	1,1,2-Trichloroethane	ND		50	51.4	103	51.7	103	1	70-130/30
79-01-6	Trichloroethene	ND		50	51.2	102	50.5	101	1	70-130/30
75-69-4	Trichlorofluoromethane	ND		50	49.9	100	50.6	101	1	70-130/30
96-18-4	1,2,3-Trichloropropane	ND		50	49.4	99	50.9	102	3	70-130/30
95-63-6	1,2,4-Trimethylbenzene	ND		50	51.4	103	51.5	103	0	70-130/30
108-67-8	1,3,5-Trimethylbenzene	ND		50	50.4	101	50.3	101	0	70-130/30
108-05-4	Vinyl Acetate	ND		50	41.2	82	41.4	83	0	70-130/30
75-01-4	Vinyl chloride	ND		50	48.7	97	49.5	99	2	70-130/30
	m,p-Xylene	ND		100	101	101	100	100	1	70-130/30
95-47-6	o-Xylene	ND		50	51.1	102	50.2	100	2	70-130/30

CAS No.	Surrogate Recoveries	MS	MSD	M97501-3	Limits
1868-53-7	Dibromofluoromethane	101%	102%	100%	70-130%
2037-26-5	Toluene-D8	101%	100%	101%	70-130%
460-00-4	4-Bromofluorobenzene	94%	96%	100%	70-130%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: M97395
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
M97571-1MS	N49351.D	5	02/08/11	JP	n/a	n/a	MSN1863
M97571-1MSD	N49352.D	5	02/08/11	JP	n/a	n/a	MSN1863
M97571-1	N49350.D	1	02/08/11	JP	n/a	n/a	MSN1863

The QC reported here applies to the following samples: Method: SW846 8260B

M97395-8, M97395-9, M97395-10, M97395-11

CAS No.	Compound	M97571-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		250	270	108	240	96	12	70-130/30
71-43-2	Benzene	ND		250	276	110	247	99	11	70-130/30
108-86-1	Bromobenzene	ND		250	266	106	251	100	6	70-130/30
74-97-5	Bromochloromethane	ND		250	261	104	246	98	6	70-130/30
75-27-4	Bromodichloromethane	ND		250	301	120	265	106	13	70-130/30
75-25-2	Bromoform	ND		250	241	96	225	90	7	70-130/30
74-83-9	Bromomethane	ND		250	216	86	212	85	2	70-130/30
78-93-3	2-Butanone (MEK)	ND		250	267	107	242	97	10	70-130/30
104-51-8	n-Butylbenzene	ND		250	277	111	252	101	9	70-130/30
135-98-8	sec-Butylbenzene	ND		250	267	107	246	98	8	70-130/30
98-06-6	tert-Butylbenzene	ND		250	272	109	249	100	9	70-130/30
75-15-0	Carbon disulfide	ND		250	261	104	233	93	11	70-130/30
56-23-5	Carbon tetrachloride	ND		250	302	121	264	106	13	70-130/30
108-90-7	Chlorobenzene	ND		250	266	106	241	96	10	70-130/30
75-00-3	Chloroethane	ND		250	255	102	238	95	7	70-130/30
67-66-3	Chloroform	ND		250	276	110	249	100	10	70-130/30
74-87-3	Chloromethane	ND		250	227	91	215	86	5	70-130/30
95-49-8	o-Chlorotoluene	ND		250	264	106	242	97	9	70-130/30
106-43-4	p-Chlorotoluene	ND		250	281	112	259	104	8	70-130/30
96-12-8	1,2-Dibromo-3-chloropropane	ND		250	262	105	232	93	12	70-130/30
124-48-1	Dibromochloromethane	ND		250	260	104	240	96	8	70-130/30
106-93-4	1,2-Dibromoethane	ND		250	281	112	254	102	10	70-130/30
95-50-1	1,2-Dichlorobenzene	ND		250	267	107	246	98	8	70-130/30
541-73-1	1,3-Dichlorobenzene	ND		250	270	108	249	100	8	70-130/30
106-46-7	1,4-Dichlorobenzene	ND		250	255	102	241	96	6	70-130/30
75-71-8	Dichlorodifluoromethane	ND		250	215	86	188	75	13	70-130/30
75-34-3	1,1-Dichloroethane	ND		250	271	108	243	97	11	70-130/30
107-06-2	1,2-Dichloroethane	ND		250	289	116	259	104	11	70-130/30
75-35-4	1,1-Dichloroethene	ND		250	258	103	234	94	10	70-130/30
156-59-2	cis-1,2-Dichloroethene	ND		250	266	106	249	100	7	70-130/30
156-60-5	trans-1,2-Dichloroethene	ND		250	264	106	240	96	10	70-130/30
78-87-5	1,2-Dichloropropane	ND		250	273	109	251	100	8	70-130/30
142-28-9	1,3-Dichloropropane	ND		250	275	110	251	100	9	70-130/30
594-20-7	2,2-Dichloropropane	ND		250	281	112	247	99	13	70-130/30
563-58-6	1,1-Dichloropropene	ND		250	281	112	248	99	12	70-130/30
10061-01-5	cis-1,3-Dichloropropene	ND		250	268	107	245	98	9	70-130/30

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: M97395
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
M97571-1MS	N49351.D	5	02/08/11	JP	n/a	n/a	MSN1863
M97571-1MSD	N49352.D	5	02/08/11	JP	n/a	n/a	MSN1863
M97571-1	N49350.D	1	02/08/11	JP	n/a	n/a	MSN1863

The QC reported here applies to the following samples: Method: SW846 8260B

M97395-8, M97395-9, M97395-10, M97395-11

CAS No.	Compound	M97571-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-02-6	trans-1,3-Dichloropropene	ND		250	289	116	265	106	9	70-130/30
100-41-4	Ethylbenzene	ND		250	276	110	244	98	12	70-130/30
87-68-3	Hexachlorobutadiene	ND		250	258	103	245	98	5	70-130/30
591-78-6	2-Hexanone	ND		250	258	103	243	97	6	70-130/30
98-82-8	Isopropylbenzene	ND		250	312	125	287	115	8	70-130/30
99-87-6	p-Isopropyltoluene	ND		250	264	106	246	98	7	70-130/30
1634-04-4	Methyl Tert Butyl Ether	ND		250	274	110	253	101	8	70-130/30
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		250	272	109	248	99	9	70-130/30
74-95-3	Methylene bromide	ND		250	286	114	264	106	8	70-130/30
75-09-2	Methylene chloride	ND		250	246	98	225	90	9	70-130/30
103-65-1	n-Propylbenzene	ND		250	274	110	253	101	8	70-130/30
100-42-5	Styrene	ND		250	284	114	253	101	12	70-130/30
630-20-6	1,1,1,2-Tetrachloroethane	ND		250	286	114	249	100	14	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	ND		250	266	106	259	104	3	70-130/30
127-18-4	Tetrachloroethene	ND		250	271	108	236	94	14	70-130/30
108-88-3	Toluene	ND		250	273	109	248	99	10	70-130/30
87-61-6	1,2,3-Trichlorobenzene	ND		250	265	106	264	106	0	70-130/30
120-82-1	1,2,4-Trichlorobenzene	ND		250	266	106	254	102	5	70-130/30
71-55-6	1,1,1-Trichloroethane	ND		250	291	116	259	104	12	70-130/30
79-00-5	1,1,2-Trichloroethane	ND		250	272	109	254	102	7	70-130/30
79-01-6	Trichloroethene	ND		250	268	107	241	96	11	70-130/30
75-69-4	Trichlorofluoromethane	ND		250	250	100	220	88	13	70-130/30
96-18-4	1,2,3-Trichloropropane	ND		250	267	107	253	101	5	70-130/30
95-63-6	1,2,4-Trimethylbenzene	ND		250	268	107	248	99	8	70-130/30
108-67-8	1,3,5-Trimethylbenzene	ND		250	271	108	249	100	8	70-130/30
108-05-4	Vinyl Acetate	ND		250	226	90	211	84	7	70-130/30
75-01-4	Vinyl chloride	ND		250	235	94	217	87	8	70-130/30
	m,p-Xylene	ND		500	552	110	498	100	10	70-130/30
95-47-6	o-Xylene	ND		250	278	111	251	100	10	70-130/30

CAS No.	Surrogate Recoveries	MS	MSD	M97571-1	Limits
1868-53-7	Dibromofluoromethane	104%	103%	103%	70-130%
2037-26-5	Toluene-D8	106%	105%	105%	70-130%
460-00-4	4-Bromofluorobenzene	102%	102%	106%	70-130%

Volatile Internal Standard Area Summary

Job Number: M97395
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Check Std:	MSG4155-CC4151	Injection Date:	02/07/11
Lab File ID:	G103068.D	Injection Time:	10:23
Instrument ID:	GCMSG	Method:	SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	288889	9.13	435103	10.01	231624	13.28	216289	15.86	120484	6.68
Upper Limit [a]	577778	9.63	870206	10.51	463248	13.78	432578	16.36	240968	7.18
Lower Limit [b]	144445	8.63	217552	9.51	115812	12.78	108145	15.36	60242	6.18
Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
MSG4155-BS	290998	9.13	440015	10.01	230182	13.28	217623	15.86	124906	6.67
MSG4155-MB	288085	9.13	436887	10.01	218207	13.28	197908	15.86	125970	6.68
ZZZZZZ	285135	9.13	426309	10.01	216264	13.28	194938	15.86	102494	6.68
ZZZZZZ	280586	9.13	427010	10.01	215287	13.28	194254	15.86	112290	6.67
ZZZZZZ	279262	9.13	422635	10.01	211012	13.28	193900	15.86	112037	6.68
ZZZZZZ	279896	9.13	422058	10.01	215227	13.28	209254	15.85	129732	6.68
ZZZZZZ	285592	9.13	424868	10.01	217940	13.28	203305	15.86	118827	6.67
ZZZZZZ	283566	9.13	430583	10.01	218898	13.28	197964	15.86	125590	6.68
ZZZZZZ	283402	9.13	423770	10.01	216360	13.28	191575	15.86	117609	6.67
M97501-3	281561	9.13	421320	10.01	214704	13.28	192836	15.86	132090	6.67
M97395-6	278242	9.13	425540	10.01	215797	13.28	194019	15.86	122340	6.68
M97501-3MS	277367	9.13	421686	10.00	225099	13.28	212670	15.86	120667	6.68
M97501-3MSD	271678	9.13	419434	10.01	222346	13.28	207334	15.86	126924	6.68
ZZZZZZ	272087	9.13	413043	10.01	209807	13.28	187865	15.86	120808	6.68
ZZZZZZ	275920	9.13	418813	10.01	216500	13.29	207697	15.86	132583	6.68
ZZZZZZ	274294	9.13	417949	10.01	214790	13.29	204814	15.86	125990	6.67
ZZZZZZ	276812	9.13	419200	10.01	211955	13.28	198599	15.86	123083	6.68
ZZZZZZ	280617	9.13	426540	10.01	213698	13.28	197203	15.86	126376	6.67
ZZZZZZ	272872	9.13	411971	10.01	209757	13.28	189876	15.86	121905	6.67
ZZZZZZ	275767	9.13	418827	10.01	212666	13.28	191314	15.86	125988	6.67
ZZZZZZ	274528	9.13	417090	10.01	208169	13.28	187778	15.86	125065	6.67
ZZZZZZ	275354	9.13	413758	10.01	208724	13.29	189391	15.86	124116	6.67

IS 1 = Pentafluorobenzene
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5
IS 4 = 1,4-Dichlorobenzene-d4
IS 5 = Tert Butyl Alcohol-D9

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Internal Standard Area Summary

Job Number: M97395
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Check Std:	MSL1644-CC1580	Injection Date:	02/03/11
Lab File ID:	L49352.D	Injection Time:	08:48
Instrument ID:	GCMSL	Method:	SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	105901	8.19	181809	9.03	107264	12.27	103249	14.83	41968	5.82
Upper Limit [a]	211802	8.69	363618	9.53	214528	12.77	206498	15.33	83936	6.32
Lower Limit [b]	52951	7.69	90905	8.53	53632	11.77	51625	14.33	20984	5.32
Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
MSL1644-BS	108646	8.19	187717	9.03	108952	12.26	102140	14.82	43019	5.82
MSL1644-BSD	110180	8.19	192418	9.03	113193	12.27	101376	14.82	46788	5.82
MSL1644-MB	106445	8.19	184246	9.03	100847	12.27	91449	14.83	44553	5.82
ZZZZZZ	109701	8.19	192929	9.03	105270	12.27	96578	14.83	46038	5.82
M97395-1	105439	8.19	180965	9.03	100147	12.27	93496	14.83	45301	5.82
M97395-7	107751	8.19	181588	9.03	101331	12.27	95845	14.83	43571	5.82
ZZZZZZ	105975	8.19	179546	9.03	100334	12.27	92316	14.83	43483	5.82
ZZZZZZ	103093	8.19	182170	9.03	100352	12.27	92768	14.83	45946	5.82
ZZZZZZ	103494	8.20	179128	9.03	97870	12.27	90407	14.83	44547	5.82
ZZZZZZ	101830	8.20	176345	9.03	96443	12.27	90362	14.83	44746	5.82
ZZZZZZ	101093	8.19	170877	9.03	94042	12.27	90580	14.83	44739	5.82
ZZZZZZ	101917	8.20	175391	9.03	99956	12.27	92305	14.83	47173	5.82
M97395-2	102472	8.19	177965	9.03	99280	12.27	91038	14.83	45911	5.82
M97395-3	101167	8.19	172866	9.03	96569	12.27	88733	14.83	42020	5.82
M97395-4	102626	8.19	175798	9.03	101095	12.27	92663	14.83	48428	5.82
M97395-5	148905	8.19	255890	9.02	140714	12.27	109301	14.83	41996	5.94
M97395-9	97198	8.38	115071	9.15	103278	12.28	111280	14.83	32866	5.85
M97395-10	112597	8.34	70927[c]	9.12	113570	12.27	126724	14.83	38498	5.85
M97395-11	126697	8.35	84425[c]	9.12	116055	12.27	128034	14.83	38660	5.86
M97395-2MS	151622	8.19	239143	9.03	130548	12.27	139429	14.82	59076	5.82
M97395-2MSD	155325	8.19	242099	9.03	129116	12.26	138435	14.82	50533	5.82

IS 1 = Pentafluorobenzene
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5
IS 4 = 1,4-Dichlorobenzene-d4
IS 5 = Tert Butyl Alcohol-D9

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.
(c) Outside control limits due to possible matrix interference. Confirmed by reanalysis.

Volatile Internal Standard Area Summary

Job Number: M97395
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Check Std:	MSN1863-CC1860	Injection Date:	02/08/11
Lab File ID:	N49331.D	Injection Time:	11:32
Instrument ID:	GCMSN	Method:	SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	120498	8.60	193537	9.46	118237	12.71	90271	15.27	60406	6.19
Upper Limit [a]	240996	9.10	387074	9.96	236474	13.21	180542	15.77	120812	6.69
Lower Limit [b]	60249	8.10	96769	8.96	59119	12.21	45136	14.77	30203	5.69
Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
MSN1863-BS	123183	8.60	201145	9.46	118384	12.71	93491	15.27	61090	6.19
MSN1862-BS2	123183	8.60	201145	9.46	118384	12.71	93491	15.27	61090	6.19
MSN1863-BSD	125398	8.60	206085	9.46	119030	12.71	95206	15.27	66662	6.19
MSN1863-MB	122108	8.60	198756	9.46	109803	12.71	83866	15.27	63539	6.19
MSN1862-MB2	122108	8.60	198756	9.46	109803	12.71	83866	15.27	63539	6.19
ZZZZZZ	122323	8.60	194467	9.46	110471	12.71	83794	15.27	60701	6.19
ZZZZZZ	120141	8.61	195522	9.46	110762	12.71	81488	15.27	57908	6.19
M97511-30	118759	8.60	192452	9.46	109000	12.71	78537	15.27	64508	6.19
M97395-8	114746	8.61	188073	9.47	108372	12.71	79325	15.27	60131	6.19
M97395-9	116664	8.60	188950	9.46	108691	12.71	78572	15.27	55624	6.19
M97395-10	115780	8.60	186275	9.46	106898	12.71	78399	15.27	59084	6.19
M97395-11	114890	8.61	187152	9.46	104973	12.71	79604	15.27	53040	6.19
ZZZZZZ	112248	8.61	180510	9.46	106819	12.71	81492	15.27	51379	6.19
ZZZZZZ	112917	8.60	185750	9.46	106901	12.71	80075	15.27	54444	6.19
ZZZZZZ	110845	8.61	180342	9.46	103703	12.71	74545	15.27	55411	6.19
ZZZZZZ	110106	8.60	182374	9.46	104527	12.71	76395	15.27	54234	6.19
ZZZZZZ	112540	8.60	181125	9.46	102642	12.71	76129	15.27	57030	6.19
M97571-1	109994	8.60	180385	9.46	102914	12.71	76085	15.27	56290	6.19
M97571-1MS	113380	8.60	184448	9.46	109448	12.71	89494	15.27	59340	6.19
M97571-1MSD	118722	8.60	194401	9.46	116801	12.71	92086	15.27	61865	6.18
ZZZZZZ	120146	8.60	197218	9.46	110212	12.71	79768	15.27	57856	6.19
ZZZZZZ	115390	8.60	189072	9.46	108661	12.71	78765	15.27	57044	6.18

IS 1 = Pentafluorobenzene
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5
IS 4 = 1,4-Dichlorobenzene-d4
IS 5 = Tert Butyl Alcohol-D9

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Surrogate Recovery Summary

Job Number: M97395
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Method: SW846 8260B Matrix: AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
M97395-1	L49358.D	102.0	99.0	89.0
M97395-2	L49366.D	102.0	100.0	91.0
M97395-3	L49367.D	97.0	100.0	95.0
M97395-4	L49368.D	100.0	102.0	94.0
M97395-5	L49369.D	86.0	101.0	101.0
M97395-6	G103080.D	100.0	99.0	98.0
M97395-7	L49359.D	100.0	100.0	115.0
M97395-8	N49339.D	103.0	105.0	106.0
M97395-9	N49340.D	100.0	106.0	105.0
M97395-9	L49372.D	38.0* [a]	149.0* [a]	88.0
M97395-10	N49341.D	99.0	105.0	104.0
M97395-10	L49373.D	38.0* [a]	269.0* [a]	91.0
M97395-11	N49342.D	99.0	103.0	101.0
M97395-11	L49374.D	85.0	257.0* [a]	90.0
M97395-2MS	L49376.D	89.0	99.0	86.0
M97395-2MSD	L49377.D	85.0	97.0	84.0
M97501-3MS	G103081.D	101.0	101.0	94.0
M97501-3MSD	G103082.D	102.0	100.0	96.0
M97571-1MS	N49351.D	104.0	106.0	102.0
M97571-1MSD	N49352.D	103.0	105.0	102.0
MSG4155-BS	G103069.D	100.0	99.0	95.0
MSG4155-MB	G103071.D	99.0	99.0	100.0
MSL1644-BS	L49353.D	96.0	97.0	90.0
MSL1644-BSD	L49354.D	98.0	100.0	95.0
MSL1644-MB	L49356.D	103.0	100.0	96.0
MSN1863-BS	N49332.D	104.0	106.0	102.0
MSN1863-BSD	N49333.D	101.0	105.0	101.0
MSN1863-MB	N49335.D	101.0	104.0	105.0

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	70-130%
S2 = Toluene-D8	70-130%
S3 = 4-Bromofluorobenzene	70-130%

(a) Outside control limits due to possible matrix interference. Confirmed by reanalysis.

New England ACCUTEST LABORATORIES

GC/MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: M97395
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP23969-MB	S21263.D	1	02/03/11	PR	01/27/11	OP23969	MSS890

The QC reported here applies to the following samples: Method: SW846 8270C

M97395-2, M97395-3, M97395-4, M97395-5, M97395-6, M97395-7, M97395-8, M97395-9, M97395-10, M97395-11

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	10	0.77	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	0.68	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.57	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.69	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	2.2	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	2.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	5.0	ug/l	
95-48-7	2-Methylphenol	ND	10	0.48	ug/l	
	3&4-Methylphenol	ND	10	0.63	ug/l	
88-75-5	2-Nitrophenol	ND	10	0.66	ug/l	
100-02-7	4-Nitrophenol	ND	20	5.0	ug/l	
87-86-5	Pentachlorophenol	ND	10	3.3	ug/l	
108-95-2	Phenol	ND	5.0	2.1	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.40	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.38	ug/l	
83-32-9	Acenaphthene	ND	5.0	0.34	ug/l	
208-96-8	Acenaphthylene	ND	5.0	1.3	ug/l	
62-53-3	Aniline	ND	10	0.46	ug/l	
120-12-7	Anthracene	ND	5.0	0.27	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	0.27	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	0.23	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	0.27	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	0.61	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	0.29	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	0.32	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	0.41	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.31	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.58	ug/l	
218-01-9	Chrysene	ND	5.0	0.22	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	0.35	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	0.23	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	0.21	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	0.61	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	1.3	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.34	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	2.5	ug/l	

Method Blank Summary

Job Number: M97395
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP23969-MB	S21263.D	1	02/03/11	PR	01/27/11	OP23969	MSS890

The QC reported here applies to the following samples: Method: SW846 8270C

M97395-2, M97395-3, M97395-4, M97395-5, M97395-6, M97395-7, M97395-8, M97395-9, M97395-10, M97395-11

CAS No.	Compound	Result	RL	MDL	Units	Q
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	0.25	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.32	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	0.34	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	0.34	ug/l	
84-66-2	Diethyl phthalate	0.63	5.0	0.61	ug/l	J
131-11-3	Dimethyl phthalate	ND	5.0	1.3	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.49	ug/l	
206-44-0	Fluoranthene	ND	5.0	0.22	ug/l	
86-73-7	Fluorene	ND	5.0	0.29	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	0.16	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	2.5	ug/l	
67-72-1	Hexachloroethane	ND	5.0	0.43	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	0.29	ug/l	
78-59-1	Isophorone	ND	5.0	0.47	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	0.31	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.33	ug/l	
99-09-2	3-Nitroaniline	ND	10	0.32	ug/l	
100-01-6	4-Nitroaniline	ND	10	0.33	ug/l	
91-20-3	Naphthalene	ND	5.0	0.33	ug/l	
98-95-3	Nitrobenzene	ND	5.0	0.31	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	0.41	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.61	ug/l	
85-01-8	Phenanthrene	ND	5.0	0.26	ug/l	
129-00-0	Pyrene	ND	5.0	0.25	ug/l	
110-86-1	Pyridine	ND	10	0.50	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	50%	15-110%
4165-62-2	Phenol-d5	34%	15-110%
118-79-6	2,4,6-Tribromophenol	85%	15-110%
4165-60-0	Nitrobenzene-d5	85%	30-130%
321-60-8	2-Fluorobiphenyl	88%	30-130%
1718-51-0	Terphenyl-d14	91%	30-130%

Blank Spike Summary

Job Number: M97395
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP23969-BS	S21264.D	1	02/03/11	PR	01/27/11	OP23969	MSS890

The QC reported here applies to the following samples: Method: SW846 8270C

M97395-2, M97395-3, M97395-4, M97395-5, M97395-6, M97395-7, M97395-8, M97395-9, M97395-10, M97395-11

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
65-85-0	Benzoic Acid	100	41.1	41	30-130
95-57-8	2-Chlorophenol	100	74.8	75	30-130
59-50-7	4-Chloro-3-methyl phenol	100	80.9	81	30-130
120-83-2	2,4-Dichlorophenol	100	83.4	83	30-130
105-67-9	2,4-Dimethylphenol	100	41.3	41	30-130
51-28-5	2,4-Dinitrophenol	100	79.1	79	30-130
534-52-1	4,6-Dinitro-o-cresol	100	79.1	79	30-130
95-48-7	2-Methylphenol	100	67.2	67	30-130
	3&4-Methylphenol	200	133	67	30-130
88-75-5	2-Nitrophenol	100	86.8	87	30-130
100-02-7	4-Nitrophenol	100	47.5	48	30-130
87-86-5	Pentachlorophenol	100	70.2	70	30-130
108-95-2	Phenol	100	37.6	38	30-130
95-95-4	2,4,5-Trichlorophenol	100	82.3	82	30-130
88-06-2	2,4,6-Trichlorophenol	100	76.4	76	30-130
83-32-9	Acenaphthene	50	38.8	78	40-140
208-96-8	Acenaphthylene	50	33.1	66	40-140
62-53-3	Aniline	50	19.6	39* [a]	40-140
120-12-7	Anthracene	50	37.8	76	40-140
56-55-3	Benzo(a)anthracene	50	42.2	84	40-140
50-32-8	Benzo(a)pyrene	50	35.4	71	40-140
205-99-2	Benzo(b)fluoranthene	50	42.6	85	40-140
191-24-2	Benzo(g,h,i)perylene	50	44.2	88	40-140
207-08-9	Benzo(k)fluoranthene	50	39.2	78	40-140
101-55-3	4-Bromophenyl phenyl ether	50	39.8	80	40-140
85-68-7	Butyl benzyl phthalate	50	40.7	81	40-140
91-58-7	2-Chloronaphthalene	50	37.7	75	40-140
106-47-8	4-Chloroaniline	50	17.1	34* [a]	40-140
218-01-9	Chrysene	50	42.6	85	40-140
111-91-1	bis(2-Chloroethoxy)methane	50	40.1	80	40-140
111-44-4	bis(2-Chloroethyl)ether	50	37.7	75	40-140
108-60-1	bis(2-Chloroisopropyl)ether	50	39.9	80	40-140
7005-72-3	4-Chlorophenyl phenyl ether	50	40.4	81	40-140
121-14-2	2,4-Dinitrotoluene	50	41.9	84	40-140
606-20-2	2,6-Dinitrotoluene	50	41.2	82	40-140
91-94-1	3,3'-Dichlorobenzidine	50	23.6	47	40-140

Blank Spike Summary

Job Number: M97395
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP23969-BS	S21264.D	1	02/03/11	PR	01/27/11	OP23969	MSS890

The QC reported here applies to the following samples: Method: SW846 8270C

M97395-2, M97395-3, M97395-4, M97395-5, M97395-6, M97395-7, M97395-8, M97395-9, M97395-10, M97395-11

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
53-70-3	Dibenzo(a,h)anthracene	50	44.9	90	40-140
132-64-9	Dibenzofuran	50	38.2	76	40-140
84-74-2	Di-n-butyl phthalate	50	39.3	79	40-140
117-84-0	Di-n-octyl phthalate	50	44.5	89	40-140
84-66-2	Diethyl phthalate	50	42.0	84	40-140
131-11-3	Dimethyl phthalate	50	41.5	83	40-140
117-81-7	bis(2-Ethylhexyl)phthalate	50	41.7	83	40-140
206-44-0	Fluoranthene	50	40.7	81	40-140
86-73-7	Fluorene	50	40.5	81	40-140
118-74-1	Hexachlorobenzene	50	40.9	82	40-140
77-47-4	Hexachlorocyclopentadiene	50	15.7	31* [a]	40-140
67-72-1	Hexachloroethane	50	30.8	62	40-140
193-39-5	Indeno(1,2,3-cd)pyrene	50	46.2	92	40-140
78-59-1	Isophorone	50	39.1	78	40-140
91-57-6	2-Methylnaphthalene	50	36.8	74	40-140
88-74-4	2-Nitroaniline	50	43.6	87	40-140
99-09-2	3-Nitroaniline	50	22.7	45	40-140
100-01-6	4-Nitroaniline	50	36.0	72	40-140
91-20-3	Naphthalene	50	39.7	79	40-140
98-95-3	Nitrobenzene	50	39.7	79	40-140
621-64-7	N-Nitroso-di-n-propylamine	50	41.8	84	40-140
86-30-6	N-Nitrosodiphenylamine	50	40.1	80	40-140
85-01-8	Phenanthrene	50	39.9	80	40-140
129-00-0	Pyrene	50	40.4	81	40-140
110-86-1	Pyridine	50	24.4	49	40-140

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	52%	15-110%
4165-62-2	Phenol-d5	36%	15-110%
118-79-6	2,4,6-Tribromophenol	83%	15-110%
4165-60-0	Nitrobenzene-d5	79%	30-130%
321-60-8	2-Fluorobiphenyl	79%	30-130%
1718-51-0	Terphenyl-d14	80%	30-130%

Blank Spike Summary

Job Number: M97395
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP23969-BS	S21264.D	1	02/03/11	PR	01/27/11	OP23969	MSS890

The QC reported here applies to the following samples: Method: SW846 8270C

M97395-2, M97395-3, M97395-4, M97395-5, M97395-6, M97395-7, M97395-8, M97395-9, M97395-10, M97395-11

(a) Outside control limits. Blank Spike meets program technical requirements.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: M97395
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP23969-MS	S21265.D	1	02/03/11	PR	01/27/11	OP23969	MSS890
OP23969-MSD	S21266.D	1	02/04/11	PR	01/27/11	OP23969	MSS890
M97395-2	S21267.D	1	02/04/11	PR	01/27/11	OP23969	MSS890

The QC reported here applies to the following samples: Method: SW846 8270C

M97395-2, M97395-3, M97395-4, M97395-5, M97395-6, M97395-7, M97395-8, M97395-9, M97395-10, M97395-11

CAS No.	Compound	M97395-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
65-85-0	Benzoic Acid	ND		109	50.9	47	52.9	50	4	30-130/20
95-57-8	2-Chlorophenol	ND		109	85.4	79	88.5	83	4	30-130/20
59-50-7	4-Chloro-3-methyl phenol	ND		109	94.2	87	98.1	92	4	30-130/20
120-83-2	2,4-Dichlorophenol	ND		109	98.2	90	101	95	3	30-130/20
105-67-9	2,4-Dimethylphenol	ND		109	49.3	45	50.9	48	3	30-130/20
51-28-5	2,4-Dinitrophenol	ND		109	96.2	89	105	99	9	30-130/20
534-52-1	4,6-Dinitro-o-cresol	ND		109	98.3	90	103	97	5	30-130/20
95-48-7	2-Methylphenol	ND		109	81.0	75	81.2	76	0	30-130/20
	3&4-Methylphenol	ND		217	159	73	158	74	1	30-130/20
88-75-5	2-Nitrophenol	ND		109	101	93	106	100	5	30-130/20
100-02-7	4-Nitrophenol	ND		109	57.2	53	61.3	58	7	30-130/20
87-86-5	Pentachlorophenol	ND		109	94.1	87	91.9	86	2	30-130/20
108-95-2	Phenol	ND		109	45.2	42	42.9	40	5	30-130/20
95-95-4	2,4,5-Trichlorophenol	ND		109	95.5	88	100	94	5	30-130/20
88-06-2	2,4,6-Trichlorophenol	ND		109	90.3	83	95.0	89	5	30-130/20
83-32-9	Acenaphthene	ND		54.3	46.5	86	47.7	90	3	40-140/20
208-96-8	Acenaphthylene	ND		54.3	39.1	72	40.0	75	2	40-140/20
62-53-3	Aniline	ND		54.3	21.9	40	20.1	38* [a]	9	40-140/20
120-12-7	Anthracene	ND		54.3	45.1	83	46.0	86	2	40-140/20
56-55-3	Benzo(a)anthracene	ND		54.3	49.3	91	48.7	92	1	40-140/20
50-32-8	Benzo(a)pyrene	ND		54.3	40.5	75	41.3	78	2	40-140/20
205-99-2	Benzo(b)fluoranthene	ND		54.3	47.5	87	48.0	90	1	40-140/20
191-24-2	Benzo(g,h,i)perylene	ND		54.3	50.4	93	48.4	91	4	40-140/20
207-08-9	Benzo(k)fluoranthene	ND		54.3	42.0	77	45.9	86	9	40-140/20
101-55-3	4-Bromophenyl phenyl ether	ND		54.3	48.9	90	49.4	93	1	40-140/20
85-68-7	Butyl benzyl phthalate	ND		54.3	47.8	88	45.2	85	6	40-140/20
91-58-7	2-Chloronaphthalene	ND		54.3	45.1	83	46.7	88	3	40-140/20
106-47-8	4-Chloroaniline	ND		54.3	16.8	31* [a]	20.0	38* [a]	17	40-140/20
218-01-9	Chrysene	ND		54.3	50.6	93	50.6	95	0	40-140/20
111-91-1	bis(2-Chloroethoxy)methane	ND		54.3	47.7	88	48.6	91	2	40-140/20
111-44-4	bis(2-Chloroethyl)ether	ND		54.3	43.5	80	45.3	85	4	40-140/20
108-60-1	bis(2-Chloroisopropyl)ether	ND		54.3	48.2	89	48.9	92	1	40-140/20
7005-72-3	4-Chlorophenyl phenyl ether	ND		54.3	47.6	88	49.6	93	4	40-140/20
121-14-2	2,4-Dinitrotoluene	ND		54.3	48.9	90	52.2	98	7	40-140/20
606-20-2	2,6-Dinitrotoluene	ND		54.3	49.9	92	51.4	97	3	40-140/20
91-94-1	3,3'-Dichlorobenzidine	ND		54.3	19.8	36* [b]	19.2	36* [b]	3	40-140/20

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: M97395
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP23969-MS	S21265.D	1	02/03/11	PR	01/27/11	OP23969	MSS890
OP23969-MSD	S21266.D	1	02/04/11	PR	01/27/11	OP23969	MSS890
M97395-2	S21267.D	1	02/04/11	PR	01/27/11	OP23969	MSS890

The QC reported here applies to the following samples: Method: SW846 8270C

M97395-2, M97395-3, M97395-4, M97395-5, M97395-6, M97395-7, M97395-8, M97395-9, M97395-10, M97395-11

CAS No.	Compound	M97395-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
53-70-3	Dibenzo(a,h)anthracene	ND		54.3	51.1	94	50.3	95	2	40-140/20
132-64-9	Dibenzofuran	ND		54.3	45.5	84	46.8	88	3	40-140/20
84-74-2	Di-n-butyl phthalate	ND		54.3	48.1	89	49.0	92	2	40-140/20
117-84-0	Di-n-octyl phthalate	ND		54.3	43.7	80	45.1	85	3	40-140/20
84-66-2	Diethyl phthalate	0.77	JB	54.3	55.3	100	52.6	97	5	40-140/20
131-11-3	Dimethyl phthalate	ND		54.3	49.0	90	50.9	96	4	40-140/20
117-81-7	bis(2-Ethylhexyl)phthalate	ND		54.3	45.7	84	45.7	86	0	40-140/20
206-44-0	Fluoranthene	ND		54.3	47.2	87	51.0	96	8	40-140/20
86-73-7	Fluorene	ND		54.3	48.0	88	50.3	95	5	40-140/20
118-74-1	Hexachlorobenzene	ND		54.3	49.5	91	49.8	94	1	40-140/20
77-47-4	Hexachlorocyclopentadiene	ND		54.3	21.4	39* [b]	21.0	39* [b]	2	40-140/20
67-72-1	Hexachloroethane	ND		54.3	37.8	70	36.7	69	3	40-140/20
193-39-5	Indeno(1,2,3-cd)pyrene	ND		54.3	52.1	96	51.5	97	1	40-140/20
78-59-1	Isophorone	ND		54.3	46.0	85	48.3	91	5	40-140/20
91-57-6	2-Methylnaphthalene	ND		54.3	43.5	80	45.4	85	4	40-140/20
88-74-4	2-Nitroaniline	ND		54.3	46.2	85	50.6	95	9	40-140/20
99-09-2	3-Nitroaniline	ND		54.3	26.3	48	29.5	55	11	40-140/20
100-01-6	4-Nitroaniline	ND		54.3	37.4	69	41.5	78	10	40-140/20
91-20-3	Naphthalene	ND		54.3	46.6	86	48.5	91	4	40-140/20
98-95-3	Nitrobenzene	ND		54.3	50.8	93	51.7	97	2	40-140/20
621-64-7	N-Nitroso-di-n-propylamine	ND		54.3	49.1	90	50.5	95	3	40-140/20
86-30-6	N-Nitrosodiphenylamine	ND		54.3	49.0	90	48.9	92	0	40-140/20
85-01-8	Phenanthrene	ND		54.3	46.3	85	48.1	90	4	40-140/20
129-00-0	Pyrene	ND		54.3	46.7	86	44.8	84	4	40-140/20
110-86-1	Pyridine	ND		54.3	28.9	53	26.8	50	8	40-140/20

CAS No.	Surrogate Recoveries	MS	MSD	M97395-2	Limits
367-12-4	2-Fluorophenol	56%	58%	45%	15-110%
4165-62-2	Phenol-d5	40%	40%	30%	15-110%
118-79-6	2,4,6-Tribromophenol	91%	95%	79%	15-110%
4165-60-0	Nitrobenzene-d5	86%	91%	77%	30-130%
321-60-8	2-Fluorobiphenyl	84%	89%	77%	30-130%
1718-51-0	Terphenyl-d14	74%	71%	65%	30-130%

6.3.1

6

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: M97395
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP23969-MS	S21265.D	1	02/03/11	PR	01/27/11	OP23969	MSS890
OP23969-MSD	S21266.D	1	02/04/11	PR	01/27/11	OP23969	MSS890
M97395-2	S21267.D	1	02/04/11	PR	01/27/11	OP23969	MSS890

The QC reported here applies to the following samples: Method: SW846 8270C

M97395-2, M97395-3, M97395-4, M97395-5, M97395-6, M97395-7, M97395-8, M97395-9, M97395-10, M97395-11

(a) Outside control limits. Blank Spike meets program technical requirements.
(b) Outside control limits due to possible matrix interference. Refer to Blank Spike.

Semivolatile Internal Standard Area Summary

Job Number: M97395
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Check Std:	MSS890-CC884	Injection Date:	02/03/11
Lab File ID:	S21252.D	Injection Time:	18:04
Instrument ID:	GCMSS	Method:	SW846 8270C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	196735	5.68	741586	7.03	343868	9.20	512662	11.39	455373	15.74	439084	17.97
Upper Limit [a]	393470	6.18	1483172	7.53	687736	9.70	1025324	11.89	910746	16.24	878168	18.47
Lower Limit [b]	98368	5.18	370793	6.53	171934	8.70	256331	10.89	227687	15.24	219542	17.47
Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
ZZZZZZ	170549	5.68	721000	7.02	353599	9.20	525818	11.39	476073	15.73	461602	17.96
ZZZZZZ	216841	5.68	867810	7.02	401551	9.20	592062	11.39	446876	15.73	405132	17.96
ZZZZZZ	247101	5.68	1014141	7.02	470070	9.20	681343	11.39	503218	15.73	421782	17.96
ZZZZZZ	181616	5.68	770827	7.02	361338	9.20	536249	11.39	461543	15.73	460237	17.96
ZZZZZZ	257111	5.69	1083312	7.02	509786	9.20	755779	11.39	544618	15.73	444170	17.96
ZZZZZZ	193567	5.68	782417	7.02	373825	9.20	542825	11.39	462336	15.73	460688	17.96
ZZZZZZ	199287	5.69	779955	7.03	358714	9.20	498013	11.39	409563	15.74	457273	17.98
ZZZZZZ	202729	5.68	793074	7.02	371522	9.20	534304	11.39	443400	15.73	444495	17.97
ZZZZZZ	213181	5.68	835510	7.02	383910	9.20	558341	11.39	457683	15.73	470152	17.97
ZZZZZZ	218292	5.68	891927	7.02	413832	9.20	615730	11.39	531117	15.73	515164	17.97
OP23969-MB	220569	5.68	881336	7.02	406408	9.20	608583	11.39	502833	15.73	488858	17.96
OP23969-BS	226173	5.68	859990	7.03	400515	9.20	591590	11.39	486555	15.74	430961	17.97
OP23969-MS	204864	5.68	772780	7.03	356132	9.20	508726	11.39	420262	15.73	425478	17.97
OP23969-MSD	191783	5.69	725794	7.03	339867	9.20	505014	11.39	470044	15.74	456720	17.97
M97395-2	194794	5.68	781118	7.03	375345	9.20	562067	11.39	496129	15.73	493087	17.97
M97395-3	200059	5.68	792115	7.03	375808	9.20	559019	11.39	493864	15.73	477823	17.97
M97395-4	202685	5.68	778188	7.03	368945	9.20	548227	11.39	473505	15.73	471204	17.96
M97395-5	207826	5.68	801552	7.03	385774	9.20	567546	11.39	488096	15.73	467981	17.97
M97395-6	220351	5.68	873884	7.03	418552	9.20	630179	11.39	508056	15.73	447543	17.97
M97395-7	214550	5.68	865023	7.03	406941	9.20	610343	11.39	498210	15.73	457106	17.97
M97395-8	216162	5.68	853507	7.03	378859	9.20	559539	11.39	440179	15.74	426076	17.97
M97395-9	211510	5.69	846878	7.03	402274	9.20	599774	11.39	487275	15.73	425722	17.97
M97395-10	196099	5.69	779108	7.03	369067	9.20	550554	11.39	434543	15.74	400950	17.97
M97395-11	206822	5.69	818548	7.03	377316	9.20	571651	11.39	439088	15.74	401798	17.97
ZZZZZZ	223567	5.69	874747	7.03	422309	9.20	624865	11.39	519277	15.73	467699	17.97

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Surrogate Recovery Summary

Job Number: M97395
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Method: SW846 8270C Matrix: AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
M97395-2	S21267.D	45.0	30.0	79.0	77.0	77.0	65.0
M97395-3	S21268.D	43.0	33.0	71.0	82.0	79.0	77.0
M97395-4	S21269.D	48.0	31.0	90.0	86.0	81.0	79.0
M97395-5	S21270.D	46.0	32.0	87.0	81.0	77.0	77.0
M97395-6	S21271.D	38.0	28.0	67.0	86.0	85.0	96.0
M97395-7	S21272.D	51.0	34.0	87.0	87.0	86.0	95.0
M97395-8	S21273.D	53.0	35.0	99.0	86.0	90.0	89.0
M97395-9	S21274.D	43.0	28.0	79.0	73.0	73.0	82.0
M97395-10	S21275.D	52.0	34.0	90.0	81.0	80.0	83.0
M97395-11	S21276.D	55.0	36.0	97.0	83.0	84.0	90.0
OP23969-BS	S21264.D	52.0	36.0	83.0	79.0	79.0	80.0
OP23969-MB	S21263.D	50.0	34.0	85.0	85.0	88.0	91.0
OP23969-MS	S21265.D	56.0	40.0	91.0	86.0	84.0	74.0
OP23969-MSD	S21266.D	58.0	40.0	95.0	91.0	89.0	71.0

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	15-110%
S2 = Phenol-d5	15-110%
S3 = 2,4,6-Tribromophenol	15-110%
S4 = Nitrobenzene-d5	30-130%
S5 = 2-Fluorobiphenyl	30-130%
S6 = Terphenyl-d14	30-130%

6.5.1

6

Roxana Groundwater Quarterly – 1st Quarter 2011

Laboratory SDG: M97427

Data Reviewer: Wendy Buchman

Peer Reviewer: Elizabeth Kunkel

Date Reviewed: 2/25/2011

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review 2008

Sample Identification	Sample Identification
P93A-ROX-012611	P93B-ROX-012611
P93C-ROX-012611	TB-ROX-012611

1.0 Data Package Completeness

Were all items delivered as specified in the QAPP and COC as appropriate?

Yes

2.0 Laboratory Case Narrative \ Cooler Receipt Form

Were problems noted in the laboratory case narrative or cooler receipt form?

Yes, the laboratory case narrative indicated VOC and SVOC LCS/LCSD recoveries were outside evaluation criteria. VOC MS/MSD recoveries were outside of evaluation criteria. Additionally, diethyl phthalate was detected in the method blank. Although not indicated in the laboratory case narrative, methylene chloride was detected in the trip blank. Samples P93A-ROX-012611, P93B-ROX-012611, and P93C-ROX-012611 were rerun at dilutions due to high levels of benzene; the compound benzene was reported from the second runs and all other compounds were reported from the original analyses. These issues are addressed further in the appropriate sections below.

The cooler receipt form indicated two out of two coolers were received by the laboratory at 1.9ºC and 1.4ºC which were outside the 4ºC ± 2ºC criteria. The samples were received in good condition; therefore, no qualification of data was required.

3.0 Holding Times

Were samples extracted/analyzed within applicable limits?

Yes

4.0 Blank Contamination

Were any analytes detected in the Method Blanks, Field Blanks or Trip Blanks?

Yes. The following table summarizes analytes detected in sample-associated blanks.

Blank ID	Parameter	Analyte	Concentration/Amount
TB-ROX-012611	VOCs	Methylene chloride	4.7 µg/L
OP23982-MB	SVOCs	Diethyl phthalate	0.83 µg/L

Qualifications due to blank contamination are included in the table below. Analytical data that were reported non-detect or at concentrations greater than five times (5X) the associated blank concentration (10X for common laboratory contaminants) did not require qualification.

Sample ID	Parameter	Analyte	New Reporting Limit (RL)	Qualification
P93A-ROX-012611	SVOCs	Diethyl phthalate	-	**U**
P93B-ROX-012611	SVOCs	Diethyl phthalate	-	**U**
P93C-ROX-012611	SVOCs	Diethyl phthalate	-	**U**

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

No

LCS ID	Parameter	Analyte	LCS Recovery	LCS Criteria
MSE2175-BS	VOCs	Dichlorodifluoromethane	**142**	70-130
MSE2175-BS	VOCs	2,2-Dichloropropane	**133**	70-130
MSE2175-BS	VOCs	Hexachlorobutadiene	**132**	70-130
MSE2175-BS	VOCs	Vinyl Acetate	**66**	70-130
OP23982-BS	SVOCs	Benzoic Acid	**24**	30-130
OP23982-BS	SVOCs	4-Chloroaniline	**34**	30-130
OP23982-BS	SVOCs	Hexachlorocyclopentadiene	**37**	40-140
OP23982-BS	SVOCs	3-Nitroaniline	**36**	40-140

Analytical data that required qualification based on LCS data are included in the table below. Analytical data reported as non-detect and associated with LCS recoveries above evaluation criteria, indicating a possible high bias, did not require qualification.

Sample ID	Parameter	Analyte	Qualification
P93A-ROX-012611	VOCs	Vinyl Acetate	**UJ**
P93A-ROX-012611	SVOCs	Benzoic Acid	**UJ**
P93A-ROX-012611	SVOCs	4-Chloroaniline	**UJ**
P93A-ROX-012611	SVOCs	Hexachlorocyclopentadiene	**UJ**
P93A-ROX-012611	SVOCs	3-Nitroaniline	**UJ**
P93B-ROX-012611	VOCs	Vinyl Acetate	**UJ**
P93B-ROX-012611	SVOCs	Benzoic Acid	**UJ**
P93B-ROX-012611	SVOCs	4-Chloroaniline	**UJ**
P93B-ROX-012611	SVOCs	Hexachlorocyclopentadiene	**UJ**
P93B-ROX-012611	SVOCs	3-Nitroaniline	**J**
P93C-ROX-012611	VOCs	Vinyl Acetate	**UJ**
P93C-ROX-012611	SVOCs	Benzoic Acid	**UJ**
P93C-ROX-012611	SVOCs	4-Chloroaniline	**UJ**
P93C-ROX-012611	SVOCs	Hexachlorocyclopentadiene	**UJ**
P93C-ROX-012611	SVOCs	3-Nitroaniline	**UJ**

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

Yes

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

Were MS/MSD samples analyzed as part of this SDG?

Yes. Sample P93B-ROX-012611 was spiked and analyzed for VOCs and SVOCs.

Were MS/MSD recoveries within evaluation criteria?

No

MS/MSD ID	Parameter	Analyte	MS/MSD Recovery	RPD	MS/MSD/ RPD Criteria
P93B-ROX-012611	VOCs	Acetone	**1564**/**1558**	0	70-130/30
P93B-ROX-012611	VOCs	Dichlorodifluoromethane	**141**/**139**	2	70-130/30
P93B-ROX-012611	VOCs	Isopropylbenzene	**140**/**143**	2	70-130/30
P93B-ROX-012611	VOCs	Styrene	**69**/77	11	70-130/30
P93B-ROX-012611	SVOCs	Phenol	32/**20**	10	30-130/20

Analytical results reported as nondetect and associated with MS/MSD recoveries above evaluation criteria, indicating a high bias, did not require qualification. USEPA National Functional Guidelines for Organic Data Review indicates that organic data does not require qualification based on MS/MSD data alone. LCS recoveries for styrene and phenol were within evaluation criteria; therefore, no qualification of data was required.

8.0 Internal Standard (IS) Recoveries

Were internal standard area recoveries within evaluation criteria?

Yes

9.0 Laboratory Duplicate Results

Were laboratory duplicate samples collected as part of this SDG?

No

10.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

No

11.0 Sample Dilutions

For samples that were diluted and nondetect, were undiluted results also reported?

Not applicable; analytes were detected in samples that were diluted.

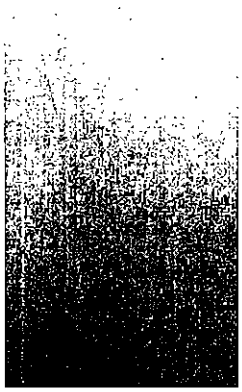
12.0 Additional Qualifications

Were additional qualifications applied?

No

New England ACCUTEST LABORATORIES

03/03/11



Technical Report for

Shell Oil

URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

SAP#340061

Accutest Job Number: M97427

Sampling Date: 01/26/11

Report to:

URS Corporation

Elizabeth_Kunkel@URSCorp.com

ATTN: Elizabeth Kunkel

Total number of pages in report: 53

Reviewed on 3/3/2011

Reza Rand
Lab Director

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Client Service contact: Kristen Blanchard 508-481-6200

Certifications: MA (M-MA136,SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) ME (MA00136) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO MN (11546AA) NC (653) IL (002337) ISO 17025:2005 (L2235)

Test results relate only to samples analyzed.

Sections: 1 2 3 4 5 6

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Sample Summary

Shell Oil

Job No: M97427

URSMOSTL:97216640 170 East Rand Avenue Hartford, IL
Project No: SAP#340061

Sample Number	Collected Date	Time By	Received	Matrix Code	Matrix Type	Client Sample ID
M97427-1	01/26/11	11:50 NSKH	01/27/11	AQ	Ground Water	P93A-ROX_012611
M97427-2	01/26/11	10:55 NSKH	01/27/11	AQ	Ground Water	P93B-ROX_012611
M97427-2D	01/26/11	10:55 NSKH	01/27/11	AQ	Water Dup/MSD	P93B-ROX_012611
M97427-2S	01/26/11	10:55 NSKH	01/27/11	AQ	Water Matrix Spike	P93B-ROX_012611
M97427-3	01/26/11	11:20 NSKH	01/27/11	AQ	Ground Water	P93C-ROX_012611
M97427-4	01/26/11	00:00 NSKH	01/27/11	AQ	Trip Blank Water	TB-ROX-012611

ACCUTEST Laboratories

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	Shell Oil	Job No	M97427
Site:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL	Report Date	2/9/2011 9:31:54 AM

3 Sample(s), 1 Trip Blank(s) and 0 Field Blank(s) were collected on 01/26/2011 and were received at Accutest on 01/27/2011 properly preserved, at 1.9 Deg. C and intact. These Samples received an Accutest job number of M97427. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix AQ Batch ID: MSE2175

- All samples were analyzed within the recommended method holding time.
- Sample(s) M97427-2MS, M97427-2MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Blank Spike Recovery(s) for 2,2-Dichloropropane, Dichlorodifluoromethane, Hexachlorobutadiene, Vinyl Acetate are outside control limits. Blank Spike meets program technical requirements.
- Matrix Spike Recovery(s) for Acetone, Dichlorodifluoromethane, Isopropylbenzene, Styrene are outside control limits. Outside control limits due to possible matrix interference. Refer to Blank Spike.
- Matrix Spike Duplicate Recovery(s) for Dichlorodifluoromethane, Isopropylbenzene are outside control limits. Outside control limits due to possible matrix interference. Refer to Blank Spike.
- MS/MSD Recovery(s) for Benzene are outside control limits. Outside control limits due to high level in sample relative to spike amount.

Matrix AQ Batch ID: MSE2177

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M97427-2MS, M97427-2MSD were used as the QC samples indicated.
- MS/MSD Recovery(s) for Benzene are outside control limits. Outside control limits due to high level in sample relative to spike amount.

Extractables by GCMS By Method SW846 8270C

Matrix AQ Batch ID: OP23982

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M97427-2MS, M97427-2MSD were used as the QC samples indicated.
- Blank Spike Recovery(s) for 3-Nitroaniline, 4-Chloroaniline, Benzoic Acid, Hexachlorocyclopentadiene, Phenol are outside control limits. Blank Spike meets program technical requirements.
- Matrix Spike Recovery(s) for 3,3'-Dichlorobenzidine, 4-Chloroaniline are outside control limits. Outside control limits due to possible matrix interference. Refer to Blank Spike.
- Matrix Spike Duplicate Recovery(s) for 3,3'-Dichlorobenzidine, 4-Chloroaniline, Phenol are outside control limits. Outside control limits due to possible matrix interference. Refer to Blank Spike.

The Accutest Laboratories of New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety.The Accutest Laboratories of NE, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report(M97427).

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	P93A-ROX_012611		
Lab Sample ID:	M97427-1	Date Sampled:	01/26/11
Matrix:	AQ - Ground Water	Date Received:	01/27/11
Method:	SW846 8260B	Percent Solids:	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E51525.D	1	02/03/11	TD	n/a	n/a	MSE2175
Run #2	E51582.D	5000	02/05/11	TD	n/a	n/a	MSE2177

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	4.6	ug/l	
71-43-2	Benzene	491000 [a]	2500	1800	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.52	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.91	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.62	ug/l	
75-25-2	Bromoform	ND	1.0	0.73	ug/l	
74-83-9	Bromomethane	ND	2.0	0.95	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.1	ug/l	
104-51-8	n-Butylbenzene	5.9	5.0	0.49	ug/l	
135-98-8	sec-Butylbenzene	9.6	5.0	0.37	ug/l	
98-06-6	tert-Butylbenzene	21.3	5.0	0.53	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.35	ug/l	
56-23-5	Carbon tetrachloride	0.81	1.0	0.42	ug/l	J
108-90-7	Chlorobenzene	0.61	1.0	0.61	ug/l	J
75-00-3	Chloroethane	ND	2.0	0.76	ug/l	
67-66-3	Chloroform	ND	1.0	0.72	ug/l	
74-87-3	Chloromethane	ND	2.0	0.81	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.58	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.67	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.3	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.86	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.74	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.77	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.81	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.61	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.63	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.74	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.70	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.66	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.74	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.83	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.73	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P93A-ROX_012611		
Lab Sample ID:	M97427-1	Date Sampled:	01/26/11
Matrix:	AQ - Ground Water	Date Received:	01/27/11
Method:	SW846 8260B	Percent Solids:	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
594-20-7	2,2-Dichloropropane	ND	5.0	0.44	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.34	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.23	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.23	ug/l	
100-41-4	Ethylbenzene	373	1.0	0.61	ug/l	
87-68-3	Hexachlorobutadiene	1.6	5.0	0.56	ug/l	J
74-88-4	Iodomethane	ND	5.0	0.47	ug/l	
98-82-8	Isopropylbenzene	22.5	5.0	0.51	ug/l	
99-87-6	p-Isopropyltoluene	4.7	5.0	0.45	ug/l	J
1634-04-4	Methyl Tert Butyl Ether	124	1.0	0.54	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.94	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.75	ug/l	
103-65-1	n-Propylbenzene	25.4	5.0	0.43	ug/l	
100-42-5	Styrene	ND	5.0	0.68	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.64	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.89	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.39	ug/l	
108-88-3	Toluene	65.4	1.0	0.74	ug/l	
87-61-6	1,2,3-Trichlorobenzene	2.6	5.0	1.0	ug/l	J
120-82-1	1,2,4-Trichlorobenzene	1.5	5.0	0.57	ug/l	J
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.35	ug/l	
79-00-5	1,1,2-Trichloroethane	1.7	1.0	0.72	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.49	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.47	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.61	ug/l	
95-63-6	1,2,4-Trimethylbenzene	210	5.0	0.62	ug/l	
108-67-8	1,3,5-Trimethylbenzene	45.0	5.0	0.51	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.51	ug/l	"UJ"
75-01-4	Vinyl chloride	ND	1.0	0.86	ug/l	
	m,p-Xylene	622	1.0	0.62	ug/l	
95-47-6	o-Xylene	70.5	1.0	0.56	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%	111%	70-130%
2037-26-5	Toluene-D8	121%	111%	70-130%
460-00-4	4-Bromofluorobenzene	102%	107%	70-130%

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P93A-ROX_012611		
Lab Sample ID:	M97427-1	Date Sampled:	01/26/11
Matrix:	AQ - Ground Water	Date Received:	01/27/11
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S21225.D	1	02/02/11	PR	01/28/11	OP23982	MSS888
Run #2							

	Initial Volume	Final Volume
Run #1	1020 ml	1.0 ml
Run #2		

ABN PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	9.8	0.75	ug/l	"UJ"
95-57-8	2-Chlorophenol	ND	4.9	0.67	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	9.8	0.56	ug/l	
120-83-2	2,4-Dichlorophenol	ND	9.8	0.68	ug/l	
105-67-9	2,4-Dimethylphenol	ND	9.8	2.1	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	2.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	9.8	4.9	ug/l	
95-48-7	2-Methylphenol	ND	9.8	0.47	ug/l	
	3&4-Methylphenol	64.0	9.8	0.62	ug/l	
88-75-5	2-Nitrophenol	ND	9.8	0.65	ug/l	
100-02-7	4-Nitrophenol	ND	20	4.9	ug/l	
87-86-5	Pentachlorophenol	ND	9.8	3.2	ug/l	
108-95-2	Phenol	172	4.9	2.0	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	9.8	0.39	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	9.8	0.37	ug/l	
83-32-9	Acenaphthene	ND	4.9	0.33	ug/l	
208-96-8	Acenaphthylene	ND	4.9	1.2	ug/l	
62-53-3	Aniline	ND	9.8	0.45	ug/l	
120-12-7	Anthracene	ND	4.9	0.27	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.9	0.27	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.9	0.22	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.9	0.27	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.9	0.60	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.9	0.29	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	4.9	0.31	ug/l	
85-68-7	Butyl benzyl phthalate	ND	4.9	0.40	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.9	0.30	ug/l	
106-47-8	4-Chloroaniline	ND	9.8	0.56	ug/l	"UJ"
218-01-9	Chrysene	ND	4.9	0.22	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	4.9	0.34	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.9	0.23	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	4.9	0.20	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P93A-ROX_012611		
Lab Sample ID:	M97427-1	Date Sampled:	01/26/11
Matrix:	AQ - Ground Water	Date Received:	01/27/11
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

ABN PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
7005-72-3	4-Chlorophenyl phenyl ether	ND	4.9	0.60	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	9.8	1.2	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	9.8	0.33	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	4.9	2.5	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.9	0.24	ug/l	
132-64-9	Dibenzofuran	ND	4.9	0.31	ug/l	
84-74-2	Di-n-butyl phthalate	ND	4.9	0.33	ug/l	
117-84-0	Di-n-octyl phthalate	ND	4.9	0.33	ug/l	
84-66-2	Diethyl phthalate	~~1.4~~ 0.0ND	4.9	0.60	ug/l	"U"
131-11-3	Dimethyl phthalate	ND	4.9	1.2	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.48	ug/l	
206-44-0	Fluoranthene	ND	4.9	0.21	ug/l	
86-73-7	Fluorene	0.32	4.9	0.29	ug/l	J
118-74-1	Hexachlorobenzene	ND	4.9	0.15	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	9.8	2.5	ug/l	"UJ"
67-72-1	Hexachloroethane	ND	4.9	0.42	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.9	0.28	ug/l	
78-59-1	Isophorone	ND	4.9	0.46	ug/l	
91-57-6	2-Methylnaphthalene	25.4	4.9	0.30	ug/l	
88-74-4	2-Nitroaniline	ND	9.8	0.33	ug/l	
99-09-2	3-Nitroaniline	ND	9.8	0.32	ug/l	"UJ"
100-01-6	4-Nitroaniline	ND	9.8	0.33	ug/l	
91-20-3	Naphthalene	80.3	4.9	0.32	ug/l	
98-95-3	Nitrobenzene	ND	4.9	0.30	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	4.9	0.40	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.9	0.60	ug/l	
85-01-8	Phenanthrene	0.40	4.9	0.25	ug/l	J
129-00-0	Pyrene	ND	4.9	0.24	ug/l	
110-86-1	Pyridine	ND	9.8	0.49	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	44%		15-110%
4165-62-2	Phenol-d5	27%		15-110%
118-79-6	2,4,6-Tribromophenol	92%		15-110%
4165-60-0	Nitrobenzene-d5	82%		30-130%
321-60-8	2-Fluorobiphenyl	79%		30-130%
1718-51-0	Terphenyl-d14	80%		30-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P93B-ROX_012611		
Lab Sample ID:	M97427-2	Date Sampled:	01/26/11
Matrix:	AQ - Ground Water	Date Received:	01/27/11
Method:	SW846 8260B	Percent Solids:	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E51522.D	1	02/03/11	TD	n/a	n/a	MSE2175
Run #2	E51578.D	500	02/05/11	TD	n/a	n/a	MSE2177

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	4.6	ug/l	
71-43-2	Benzene	105000 [a]	250	180	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.52	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.91	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.62	ug/l	
75-25-2	Bromoform	ND	1.0	0.73	ug/l	
74-83-9	Bromomethane	ND	2.0	0.95	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.1	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.49	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.37	ug/l	
98-06-6	tert-Butylbenzene	0.58	5.0	0.53	ug/l	J
75-15-0	Carbon disulfide	ND	5.0	0.35	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.42	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.61	ug/l	
75-00-3	Chloroethane	0.77	2.0	0.76	ug/l	J
67-66-3	Chloroform	ND	1.0	0.72	ug/l	
74-87-3	Chloromethane	1.4	2.0	0.81	ug/l	J
95-49-8	o-Chlorotoluene	ND	5.0	0.58	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.67	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.3	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.86	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.74	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.77	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.81	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.61	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.63	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.74	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.70	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.66	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.74	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.83	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.73	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P93B-ROX_012611		
Lab Sample ID:	M97427-2	Date Sampled:	01/26/11
Matrix:	AQ - Ground Water	Date Received:	01/27/11
Method:	SW846 8260B	Percent Solids:	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
594-20-7	2,2-Dichloropropane	ND	5.0	0.44	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.34	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.23	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.23	ug/l	
100-41-4	Ethylbenzene	10.4	1.0	0.61	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.56	ug/l	
74-88-4	Iodomethane	ND	5.0	0.47	ug/l	
98-82-8	Isopropylbenzene	10.8	5.0	0.51	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.45	ug/l	
1634-04-4	Methyl Tert Butyl Ether	8.8	1.0	0.54	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.94	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.75	ug/l	
103-65-1	n-Propylbenzene	11.0	5.0	0.43	ug/l	
100-42-5	Styrene	ND	5.0	0.68	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.64	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.89	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.39	ug/l	
108-88-3	Toluene	32.1	1.0	0.74	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.57	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.35	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.72	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.49	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.47	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.61	ug/l	
95-63-6	1,2,4-Trimethylbenzene	5.2	5.0	0.62	ug/l	
108-67-8	1,3,5-Trimethylbenzene	1.6	5.0	0.51	ug/l	J
108-05-4	Vinyl Acetate	ND	5.0	0.51	ug/l	"UJ"
75-01-4	Vinyl chloride	ND	1.0	0.86	ug/l	
	m,p-Xylene	55.5	1.0	0.62	ug/l	
95-47-6	o-Xylene	9.2	1.0	0.56	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%	116%	70-130%
2037-26-5	Toluene-D8	110%	112%	70-130%
460-00-4	4-Bromofluorobenzene	111%	109%	70-130%

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P93B-ROX_012611		
Lab Sample ID:	M97427-2	Date Sampled:	01/26/11
Matrix:	AQ - Ground Water	Date Received:	01/27/11
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S21226.D	1	02/02/11	PR	01/28/11	OP23982	MSS888
Run #2							

	Initial Volume	Final Volume
Run #1	940 ml	1.0 ml
Run #2		

ABN PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	11	0.82	ug/l	"UJ"
95-57-8	2-Chlorophenol	ND	5.3	0.73	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.61	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.74	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	2.3	ug/l	
51-28-5	2,4-Dinitrophenol	ND	21	2.7	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	5.3	ug/l	
95-48-7	2-Methylphenol	ND	11	0.51	ug/l	
	3&4-Methylphenol	ND	11	0.67	ug/l	
88-75-5	2-Nitrophenol	ND	11	0.70	ug/l	
100-02-7	4-Nitrophenol	ND	21	5.3	ug/l	
87-86-5	Pentachlorophenol	ND	11	3.5	ug/l	
108-95-2	Phenol	106	5.3	2.2	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.43	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.40	ug/l	
83-32-9	Acenaphthene	ND	5.3	0.36	ug/l	
208-96-8	Acenaphthylene	ND	5.3	1.3	ug/l	
62-53-3	Aniline	ND	11	0.48	ug/l	
120-12-7	Anthracene	ND	5.3	0.29	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.3	0.29	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.3	0.24	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.3	0.29	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.3	0.65	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.3	0.31	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.3	0.34	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.3	0.43	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.3	0.32	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.61	ug/l	"UJ"
218-01-9	Chrysene	ND	5.3	0.24	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.3	0.37	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.3	0.25	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.3	0.22	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P93B-ROX_012611		
Lab Sample ID:	M97427-2	Date Sampled:	01/26/11
Matrix:	AQ - Ground Water	Date Received:	01/27/11
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

ABN PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.3	0.65	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	1.3	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.36	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.3	2.7	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.3	0.26	ug/l	
132-64-9	Dibenzofuran	ND	5.3	0.34	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.3	0.36	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.3	0.36	ug/l	
84-66-2	Diethyl phthalate	~~0.86~~ 0.ND	5.3	0.65	ug/l	"U"
131-11-3	Dimethyl phthalate	ND	5.3	1.3	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.1	0.52	ug/l	
206-44-0	Fluoranthene	ND	5.3	0.23	ug/l	
86-73-7	Fluorene	ND	5.3	0.31	ug/l	
118-74-1	Hexachlorobenzene	ND	5.3	0.17	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	2.7	ug/l	"U"
67-72-1	Hexachloroethane	ND	5.3	0.46	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.3	0.31	ug/l	
78-59-1	Isophorone	ND	5.3	0.50	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.3	0.33	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.36	ug/l	
99-09-2	3-Nitroaniline	0.69	11	0.34	ug/l	"J"
100-01-6	4-Nitroaniline	ND	11	0.36	ug/l	
91-20-3	Naphthalene	1.1	5.3	0.35	ug/l	J
98-95-3	Nitrobenzene	ND	5.3	0.32	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.3	0.43	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.3	0.65	ug/l	
85-01-8	Phenanthrene	ND	5.3	0.27	ug/l	
129-00-0	Pyrene	ND	5.3	0.26	ug/l	
110-86-1	Pyridine	ND	11	0.53	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	45%		15-110%
4165-62-2	Phenol-d5	28%		15-110%
118-79-6	2,4,6-Tribromophenol	97%		15-110%
4165-60-0	Nitrobenzene-d5	87%		30-130%
321-60-8	2-Fluorobiphenyl	82%		30-130%
1718-51-0	Terphenyl-d14	79%		30-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P93C-ROX_012611		
Lab Sample ID:	M97427-3	Date Sampled:	01/26/11
Matrix:	AQ - Ground Water	Date Received:	01/27/11
Method:	SW846 8260B	Percent Solids:	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E51526.D	1	02/03/11	TD	n/a	n/a	MSE2175
Run #2	E51581.D	500	02/05/11	TD	n/a	n/a	MSE2177

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	4.6	ug/l	
71-43-2	Benzene	86500 [a]	250	180	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.52	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.91	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.62	ug/l	
75-25-2	Bromoform	ND	1.0	0.73	ug/l	
74-83-9	Bromomethane	ND	2.0	0.95	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.1	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.49	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.37	ug/l	
98-06-6	tert-Butylbenzene	0.56	5.0	0.53	ug/l	J
75-15-0	Carbon disulfide	ND	5.0	0.35	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.42	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.61	ug/l	
75-00-3	Chloroethane	ND	2.0	0.76	ug/l	
67-66-3	Chloroform	ND	1.0	0.72	ug/l	
74-87-3	Chloromethane	ND	2.0	0.81	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.58	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.67	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.3	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.86	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.74	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.77	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.81	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.61	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.63	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.74	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.70	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.66	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.74	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.83	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.73	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P93C-ROX_012611		
Lab Sample ID:	M97427-3	Date Sampled:	01/26/11
Matrix:	AQ - Ground Water	Date Received:	01/27/11
Method:	SW846 8260B	Percent Solids:	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
594-20-7	2,2-Dichloropropane	ND	5.0	0.44	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.34	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.23	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.23	ug/l	
100-41-4	Ethylbenzene	17.5	1.0	0.61	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.56	ug/l	
74-88-4	Iodomethane	ND	5.0	0.47	ug/l	
98-82-8	Isopropylbenzene	1.9	5.0	0.51	ug/l	J
99-87-6	p-Isopropyltoluene	ND	5.0	0.45	ug/l	
1634-04-4	Methyl Tert Butyl Ether	1.4	1.0	0.54	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.94	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.75	ug/l	
103-65-1	n-Propylbenzene	1.3	5.0	0.43	ug/l	J
100-42-5	Styrene	ND	5.0	0.68	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.64	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.89	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.39	ug/l	
108-88-3	Toluene	6.7	1.0	0.74	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.57	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.35	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.72	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.49	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.47	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.61	ug/l	
95-63-6	1,2,4-Trimethylbenzene	2.5	5.0	0.62	ug/l	J
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.51	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.51	ug/l	"UJ"
75-01-4	Vinyl chloride	ND	1.0	0.86	ug/l	
	m,p-Xylene	5.1	1.0	0.62	ug/l	
95-47-6	o-Xylene	3.5	1.0	0.56	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%	110%	70-130%
2037-26-5	Toluene-D8	106%	113%	70-130%
460-00-4	4-Bromofluorobenzene	122%	105%	70-130%

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P93C-ROX_012611		
Lab Sample ID:	M97427-3	Date Sampled:	01/26/11
Matrix:	AQ - Ground Water	Date Received:	01/27/11
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S21227.D	1	02/02/11	PR	01/28/11	OP23982	MSS888
Run #2							

	Initial Volume	Final Volume
Run #1	980 ml	1.0 ml
Run #2		

ABN PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	10	0.79	ug/l	"UJ"
95-57-8	2-Chlorophenol	ND	5.1	0.70	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.58	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.71	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	2.2	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	2.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	5.1	ug/l	
95-48-7	2-Methylphenol	ND	10	0.49	ug/l	
	3&4-Methylphenol	ND	10	0.64	ug/l	
88-75-5	2-Nitrophenol	ND	10	0.67	ug/l	
100-02-7	4-Nitrophenol	ND	20	5.1	ug/l	
87-86-5	Pentachlorophenol	ND	10	3.4	ug/l	
108-95-2	Phenol	16.6	5.1	2.1	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.41	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.38	ug/l	
83-32-9	Acenaphthene	ND	5.1	0.34	ug/l	
208-96-8	Acenaphthylene	ND	5.1	1.3	ug/l	
62-53-3	Aniline	ND	10	0.46	ug/l	
120-12-7	Anthracene	ND	5.1	0.28	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.1	0.28	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.1	0.23	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.1	0.28	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.1	0.62	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.1	0.30	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.1	0.33	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.1	0.42	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.1	0.31	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.59	ug/l	"UJ"
218-01-9	Chrysene	ND	5.1	0.23	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.1	0.36	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.1	0.24	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.1	0.21	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P93C-ROX_012611		
Lab Sample ID:	M97427-3	Date Sampled:	01/26/11
Matrix:	AQ - Ground Water	Date Received:	01/27/11
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

ABN PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.1	0.62	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	1.3	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.34	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.1	2.6	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.1	0.25	ug/l	
132-64-9	Dibenzofuran	ND	5.1	0.32	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.1	0.34	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.1	0.34	ug/l	
84-66-2	Diethyl phthalate	~~0.97~~ 0.0 ND	5.1	0.62	ug/l	J
131-11-3	Dimethyl phthalate	ND	5.1	1.3	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.50	ug/l	
206-44-0	Fluoranthene	ND	5.1	0.22	ug/l	
86-73-7	Fluorene	ND	5.1	0.30	ug/l	
118-74-1	Hexachlorobenzene	ND	5.1	0.16	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	2.6	ug/l	"U"
67-72-1	Hexachloroethane	ND	5.1	0.44	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.1	0.29	ug/l	
78-59-1	Isophorone	ND	5.1	0.48	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.1	0.31	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.34	ug/l	
99-09-2	3-Nitroaniline	ND	10	0.33	ug/l	"U"
100-01-6	4-Nitroaniline	ND	10	0.34	ug/l	
91-20-3	Naphthalene	ND	5.1	0.33	ug/l	
98-95-3	Nitrobenzene	ND	5.1	0.31	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.1	0.41	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.1	0.62	ug/l	
85-01-8	Phenanthrene	ND	5.1	0.26	ug/l	
129-00-0	Pyrene	ND	5.1	0.25	ug/l	
110-86-1	Pyridine	ND	10	0.51	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	40%		15-110%
4165-62-2	Phenol-d5	25%		15-110%
118-79-6	2,4,6-Tribromophenol	88%		15-110%
4165-60-0	Nitrobenzene-d5	83%		30-130%
321-60-8	2-Fluorobiphenyl	78%		30-130%
1718-51-0	Terphenyl-d14	75%		30-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-ROX-012611		
Lab Sample ID:	M97427-4	Date Sampled:	01/26/11
Matrix:	AQ - Trip Blank Water	Date Received:	01/27/11
Method:	SW846 8260B	Percent Solids:	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E51521.D	1	02/03/11	TD	n/a	n/a	MSE2175
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	4.6	ug/l	
71-43-2	Benzene	ND	0.50	0.35	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.52	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.91	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.62	ug/l	
75-25-2	Bromoform	ND	1.0	0.73	ug/l	
74-83-9	Bromomethane	ND	2.0	0.95	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.1	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.49	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.37	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.53	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.35	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.42	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.61	ug/l	
75-00-3	Chloroethane	ND	2.0	0.76	ug/l	
67-66-3	Chloroform	ND	1.0	0.72	ug/l	
74-87-3	Chloromethane	ND	2.0	0.81	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.58	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.67	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.3	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.86	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.74	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.77	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.81	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.61	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.63	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.74	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.70	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.66	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.74	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.83	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.73	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-ROX-012611		
Lab Sample ID:	M97427-4	Date Sampled:	01/26/11
Matrix:	AQ - Trip Blank Water	Date Received:	01/27/11
Method:	SW846 8260B	Percent Solids:	n/a
Project:	URSMOSTL:97216640 170 East Rand Avenue Hartford, IL		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
594-20-7	2,2-Dichloropropane	ND	5.0	0.44	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.34	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.23	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.61	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.56	ug/l	
74-88-4	Iodomethane	ND	5.0	0.47	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.51	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.45	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.54	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.94	ug/l	
75-09-2	Methylene chloride	4.7	2.0	0.75	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.43	ug/l	
100-42-5	Styrene	ND	5.0	0.68	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.64	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.89	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.39	ug/l	
108-88-3	Toluene	ND	1.0	0.74	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.57	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.35	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.72	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.49	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.47	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.61	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.62	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.51	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.51	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.86	ug/l	
	m,p-Xylene	ND	1.0	0.62	ug/l	
95-47-6	o-Xylene	ND	1.0	0.56	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	115%		70-130%
2037-26-5	Toluene-D8	113%		70-130%
460-00-4	4-Bromofluorobenzene	103%		70-130%

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RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

New England ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Certification Exceptions (IL)
- Chain of Custody
- Sample Tracking Chronicle
- Internal Chain of Custody

Shell Oil Products Chain Of Custody Record

LAB (LOCATION)
☐ KENCO (_____)
☐ CALSCIENCE (Accutest Lab, 495 Technology Dr W Marlborough, MA 01752 (508-481-6200))
☑ OTHER (Marlborough, MA 01752 (508-481-6200))
☐ SPL (Lab Vendor # _____)
Lab Vendor #

Please Check Appropriate Box:
☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SOAHC ☐ CONSULTANT ☐ TUMS
☐ SHELL PIPELINE ☐ OTHER _____

Print Bill To Contact Name: WENDY PENNINGTON
PO. #:
INCIDENT # (ENV SERVICES): 9 7 2 1 8 8 4 0
BAP #: 3 4 0 0 8 1
☐ CHECK IF NO INCIDENT # APPLIES
DATE: 01 26 11
PAGE: 1 of 1

SITE ADDRESS (Street and City): 170 EAST RAND AVENUE -- HARTFORD
STATE: IL
CONSULTANT PROJECT NO.: Rozana Quarterly / 215825GJ0003

URS CORPORATION
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110
PROJECT CONTACT (Reporting or EDF Questions): WENDY PENNINGTON
TELEPHONE: 314-743-4166 or 341-452-8929
FAX: 314-429-0462
E-mail To Contact EMAIL:
SAMPLER(S) Printed & Signature: N. Satam / K. Hurst
LAB USE ONLY: M97427

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:

DELIVERABLES: ☐ LEVEL 1 ☑ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☑ OTHER (SPECIFY) EDD

TEMPERATURE ON ASCOPT C°: Cooler #1 | Cooler #2 | Cooler #3

SPECIAL INSTRUCTIONS OR NOTES:

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED
☐ PROVIDE LEDD DISK

QUOTE # PEK12/2010-14

REQUESTED ANALYSIS

Lab Use Only	Field Sample Identification	Sampling: Date	Sampling: Time	Matrix	Preservative: HCL	Preservative: HNO3	Preservative: H2SO4	Preservative: NONE	Preservative: OTHER	No. of Cont.	VOC 8260B	SVOC 8270C	PID (ppm)	Container PID Readings or Laboratory Notes
1	P93A-ROX-012611	1/26/11	1150	Water	3			2			✓	✓		
2	P93B-ROX-012611	1/26/11	1055		3			2			✓	✓		
2MS	P93B-ROX-012611MS	1/26/11	1055		3			2			✓	✓		
2SD	P93B-ROX-012611MSD	1/26/11	1055		3			2			✓	✓		
3	P93C-ROX-012611	1/26/11	1120		3			2			✓	✓		
~~4~~	~~P93D-ROX-012611~~	~~1/26/11~~			~~3~~			~~2~~			~~✓~~	~~✓~~		
5	TB-ROX-012611	1/26/11		↓	2						✓			
														TC, IB2

Relinquished by: (Signature)	Received by: (Signature)	Date	Time
Satam	FedEx	1/26/11	1500
FedEx		1/27/11	11:00
			1-4/1.9°

M97427: Chain of Custody
Page 1 of 2

ACCUTEST LABORATORIES

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: M97427 Client: URS Immediate Client Services Action Required: No

Date / Time Received: 1/27/2011 Delivery Method: Client Service Action Required at Login: No

Project: 170 EAST RAND AVE HARTFORD No. Coolers: 2 Airbill #'s: N/A

Cooler Security	Y or N		Y or N
1. Custody Seals Present:	☑ ☐	3. COC Present:	☑ ☐
2. Custody Seals Intact:	☑ ☐	4. Smpl Dates/Time OK	☑ ☐

Cooler Temperature	Y or N
1. Temp criteria achieved:	☑ ☐
2. Cooler temp verification:	Infared gun
3. Cooler media:	Ice (bag)

Quality Control Preservatio	Y or N	N/A
1. Trip Blank present / cooler:	☑ ☐	☐
2. Trip Blank listed on COC:	☑ ☐	☐
3. Samples preserved properly:	☑ ☐	
4. VOCs headspace free:	☑ ☐	☐

Sample Integrity - Documentation	Y or N
1. Sample labels present on bottles:	☑ ☐
2. Container labeling complete:	☑ ☐
3. Sample container label / COC agree:	☑ ☐

Sample Integrity - Condition	Y or N
1. Sample recvd within HT:	☑ ☐
2. All containers accounted for:	☑ ☐
3. Condition of sample:	Intact

Sample Integrity - Instructions	Y or N	N/A
1. Analysis requested is clear:	☑ ☐	
2. Bottles received for unspecified tests	☐ ☑	
3. Sufficient volume recvd for analysis:	☑ ☐	
4. Compositing instructions clear:	☐ ☐	☑
5. Filtering instructions clear:	☐ ☐	☑

Comments

Accutest Laboratories
V.508.481.6200

495 Technology Center West, Bldg One
F. 508.481.7753

Marlborough, MA
www.accutest.com

4.1 4

M97427: Chain of Custody
Page 2 of 2

Internal Sample Tracking Chronicle

Shell Oil

Job No: M97427

URSMOSTL:97216640 170 East Rand Avenue Hartford, IL
Project No: SAP#340061

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
M97427-1	Collected: 26-JAN-11 11:50 By: NSKH		Received: 27-JAN-11 By: JB			
P93A-ROX_012611						
M97427-1	SW846 8270C	02-FEB-11 18:19	PR	28-JAN-11	AJ	AB8270PPL
M97427-1	SW846 8260B	03-FEB-11 14:37	TD			V8260STD
M97427-1	SW846 8260B	05-FEB-11 04:18	TD			V8260STD
M97427-2	Collected: 26-JAN-11 10:55 By: NSKH		Received: 27-JAN-11 By: JB			
P93B-ROX_012611						
M97427-2	SW846 8270C	02-FEB-11 18:46	PR	28-JAN-11	AJ	AB8270PPL
M97427-2	SW846 8260B	03-FEB-11 13:13	TD			V8260STD
M97427-2	SW846 8260B	05-FEB-11 02:22	TD			V8260STD
M97427-3	Collected: 26-JAN-11 11:20 By: NSKH		Received: 27-JAN-11 By: JB			
P93C-ROX_012611						
M97427-3	SW846 8270C	02-FEB-11 19:13	PR	28-JAN-11	AJ	AB8270PPL
M97427-3	SW846 8260B	03-FEB-11 15:00	TD			V8260STD
M97427-3	SW846 8260B	05-FEB-11 03:49	TD			V8260STD
M97427-4	Collected: 26-JAN-11 00:00 By: NSKH		Received: 27-JAN-11 By: JB			
TB-ROX-012611						
M97427-4	SW846 8260B	03-FEB-11 12:44	TD			V8260STD

Accutest Internal Chain of Custody

Job Number: M97427
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL
Received: 01/27/11

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
M97427-1.1	Walk In Ref #22	Bijan Jafari	01/28/11 11:08	Retrieve from Storage
M97427-1.1	Bijan Jafari		02/07/11 10:33	Depleted
M97427-1.4	VOC Ref #1	Tamis Dudo	02/03/11 11:50	Retrieve from Storage
M97427-1.4	Tamis Dudo	GCMSE	02/03/11 11:50	Load on Instrument
M97427-1.4	GCMSE	Tamis Dudo	02/04/11 08:57	Unload from Instrument
M97427-1.4	Tamis Dudo	VOC Ref #1	02/04/11 11:04	Return to Storage
M97427-1.5	VOC Ref #1	Tamis Dudo	02/04/11 15:37	Retrieve from Storage
M97427-1.5	Tamis Dudo	GCMSE	02/04/11 15:37	Load on Instrument
M97427-1.5	GCMSE	Tamis Dudo	02/07/11 08:45	Unload from Instrument
M97427-1.5	Tamis Dudo	VOC Ref #1	02/08/11 15:31	Return to Storage
M97427-2.1	Walk In Ref #22	Bijan Jafari	01/28/11 11:08	Retrieve from Storage
M97427-2.1	Bijan Jafari		02/07/11 10:33	Depleted
M97427-2.4	Walk In Ref #22	Bijan Jafari	01/28/11 11:08	Retrieve from Storage
M97427-2.4	Bijan Jafari		02/07/11 10:33	Depleted
M97427-2.5	Walk In Ref #22	Bijan Jafari	01/28/11 11:08	Retrieve from Storage
M97427-2.5	Bijan Jafari		02/07/11 10:33	Depleted
M97427-2.10	VOC Ref #1	Tamis Dudo	02/03/11 11:50	Retrieve from Storage
M97427-2.10	Tamis Dudo	GCMSE	02/03/11 11:50	Load on Instrument
M97427-2.10	GCMSE	Tamis Dudo	02/04/11 08:57	Unload from Instrument
M97427-2.10	Tamis Dudo	VOC Ref #1	02/04/11 11:04	Return to Storage
M97427-2.11	VOC Ref #1	Tamis Dudo	02/03/11 11:50	Retrieve from Storage
M97427-2.11	Tamis Dudo	GCMSE	02/03/11 11:50	Load on Instrument
M97427-2.11	GCMSE	Tamis Dudo	02/04/11 08:57	Unload from Instrument
M97427-2.11	Tamis Dudo	VOC Ref #1	02/04/11 11:04	Return to Storage
M97427-2.13	VOC Ref #1	Tamis Dudo	02/04/11 15:37	Retrieve from Storage
M97427-2.13	Tamis Dudo	GCMSE	02/04/11 15:37	Load on Instrument
M97427-2.13	GCMSE	Tamis Dudo	02/07/11 08:45	Unload from Instrument
M97427-2.13	Tamis Dudo	VOC Ref #1	02/08/11 15:31	Return to Storage
M97427-2.14	VOC Ref #1	Tamis Dudo	02/03/11 11:50	Retrieve from Storage
M97427-2.14	Tamis Dudo	GCMSE	02/03/11 11:50	Load on Instrument
M97427-2.14	GCMSE	Tamis Dudo	02/04/11 08:57	Unload from Instrument
M97427-2.14	Tamis Dudo	VOC Ref #1	02/04/11 11:04	Return to Storage
M97427-2.15	VOC Ref #1	Tamis Dudo	02/03/11 11:50	Retrieve from Storage
M97427-2.15	Tamis Dudo	GCMSE	02/03/11 11:50	Load on Instrument

Accutest Internal Chain of Custody

Job Number: M97427
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL
Received: 01/27/11

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
M97427-2.15	GCMSE	Tamis Dudo	02/04/11 08:57	Unload from Instrument
M97427-2.15	Tamis Dudo	VOC Ref #1	02/04/11 11:04	Return to Storage
M97427-3.1	Walk In Ref #22	Bijan Jafari	01/28/11 14:10	Retrieve from Storage
M97427-3.1	Bijan Jafari		02/07/11 10:33	Depleted
M97427-3.4	VOC Ref #1	Tamis Dudo	02/04/11 15:37	Retrieve from Storage
M97427-3.4	Tamis Dudo	GCMSE	02/04/11 15:37	Load on Instrument
M97427-3.4	GCMSE	Tamis Dudo	02/07/11 08:45	Unload from Instrument
M97427-3.4	Tamis Dudo	VOC Ref #1	02/08/11 15:31	Return to Storage
M97427-3.5	VOC Ref #1	Tamis Dudo	02/03/11 11:50	Retrieve from Storage
M97427-3.5	Tamis Dudo	GCMSE	02/03/11 11:50	Load on Instrument
M97427-3.5	GCMSE	Tamis Dudo	02/04/11 08:57	Unload from Instrument
M97427-3.5	Tamis Dudo	VOC Ref #1	02/04/11 11:04	Return to Storage
M97427-4.1	VOC Ref #1	Tamis Dudo	02/03/11 11:50	Retrieve from Storage
M97427-4.1	Tamis Dudo	GCMSE	02/03/11 11:50	Load on Instrument
M97427-4.1	GCMSE	Tamis Dudo	02/04/11 08:57	Unload from Instrument
M97427-4.1	Tamis Dudo	VOC Ref #1	02/04/11 11:04	Return to Storage

New England ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: M97427
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSE2175-MB	E51520.D	1	02/03/11	TD	n/a	n/a	MSE2175

The QC reported here applies to the following samples: Method: SW846 8260B

M97427-1, M97427-2, M97427-3, M97427-4

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	4.6	ug/l	
71-43-2	Benzene	ND	0.50	0.35	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.52	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.91	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.62	ug/l	
75-25-2	Bromoform	ND	1.0	0.73	ug/l	
74-83-9	Bromomethane	ND	2.0	0.95	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.1	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.49	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.37	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.53	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.35	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.42	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.61	ug/l	
75-00-3	Chloroethane	ND	2.0	0.76	ug/l	
67-66-3	Chloroform	ND	1.0	0.72	ug/l	
74-87-3	Chloromethane	ND	2.0	0.81	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.58	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.67	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.3	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.86	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.74	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.77	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.81	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.61	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.63	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.74	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.70	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.66	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.74	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.83	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.73	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.44	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.34	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.23	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.23	ug/l	

Method Blank Summary

Job Number: M97427
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSE2175-MB	E51520.D	1	02/03/11	TD	n/a	n/a	MSE2175

The QC reported here applies to the following samples: Method: SW846 8260B

M97427-1, M97427-2, M97427-3, M97427-4

CAS No.	Compound	Result	RL	MDL	Units	Q
100-41-4	Ethylbenzene	ND	1.0	0.61	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.56	ug/l	
74-88-4	Iodomethane	ND	5.0	0.47	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.51	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.45	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.54	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.94	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.75	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.43	ug/l	
100-42-5	Styrene	ND	5.0	0.68	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.64	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.89	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.39	ug/l	
108-88-3	Toluene	ND	1.0	0.74	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.57	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.35	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.72	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.49	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.47	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.61	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.62	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.51	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.51	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.86	ug/l	
	m,p-Xylene	ND	1.0	0.62	ug/l	
95-47-6	o-Xylene	ND	1.0	0.56	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	119%	70-130%
2037-26-5	Toluene-D8	116%	70-130%
460-00-4	4-Bromofluorobenzene	110%	70-130%

Method Blank Summary

Job Number: M97427
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSE2177-MB	E51577.D	1	02/05/11	TD	n/a	n/a	MSE2177

The QC reported here applies to the following samples: Method: SW846 8260B

M97427-1, M97427-2, M97427-3

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.35	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	110%	70-130%
2037-26-5	Toluene-D8	114%	70-130%
460-00-4	4-Bromofluorobenzene	112%	70-130%

Blank Spike Summary

Job Number: M97427
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSE2175-BS	E51518A.D	1	02/03/11	TD	n/a	n/a	MSE2175

The QC reported here applies to the following samples: Method: SW846 8260B

M97427-1, M97427-2, M97427-3, M97427-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	50	54.4	109	70-130
71-43-2	Benzene	50	57.9	116	70-130
108-86-1	Bromobenzene	50	53.4	107	70-130
74-97-5	Bromochloromethane	50	54.7	109	70-130
75-27-4	Bromodichloromethane	50	56.6	113	70-130
75-25-2	Bromoform	50	49.6	99	70-130
74-83-9	Bromomethane	50	56.1	112	70-130
78-93-3	2-Butanone (MEK)	50	45.6	91	70-130
104-51-8	n-Butylbenzene	50	59.9	120	70-130
135-98-8	sec-Butylbenzene	50	58.0	116	70-130
98-06-6	tert-Butylbenzene	50	59.6	119	70-130
75-15-0	Carbon disulfide	50	61.9	124	70-130
56-23-5	Carbon tetrachloride	50	61.8	124	70-130
108-90-7	Chlorobenzene	50	54.1	108	70-130
75-00-3	Chloroethane	50	58.7	117	70-130
67-66-3	Chloroform	50	58.6	117	70-130
74-87-3	Chloromethane	50	59.4	119	70-130
95-49-8	o-Chlorotoluene	50	57.4	115	70-130
106-43-4	p-Chlorotoluene	50	58.6	117	70-130
96-12-8	1,2-Dibromo-3-chloropropane	50	43.3	87	70-130
124-48-1	Dibromochloromethane	50	51.7	103	70-130
95-50-1	1,2-Dichlorobenzene	50	53.1	106	70-130
541-73-1	1,3-Dichlorobenzene	50	51.8	104	70-130
106-46-7	1,4-Dichlorobenzene	50	56.2	112	70-130
75-71-8	Dichlorodifluoromethane	50	70.8	142* [a]	70-130
75-34-3	1,1-Dichloroethane	50	59.0	118	70-130
107-06-2	1,2-Dichloroethane	50	53.7	107	70-130
75-35-4	1,1-Dichloroethene	50	56.6	113	70-130
156-59-2	cis-1,2-Dichloroethene	50	50.8	102	70-130
156-60-5	trans-1,2-Dichloroethene	50	53.4	107	70-130
78-87-5	1,2-Dichloropropane	50	54.8	110	70-130
142-28-9	1,3-Dichloropropane	50	48.9	98	70-130
594-20-7	2,2-Dichloropropane	50	66.4	133* [a]	70-130
563-58-6	1,1-Dichloropropene	50	56.5	113	70-130
10061-01-5	cis-1,3-Dichloropropene	50	55.7	111	70-130
10061-02-6	trans-1,3-Dichloropropene	50	57.2	114	70-130

Blank Spike Summary

Job Number: M97427
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSE2175-BS	E51518A.D	1	02/03/11	TD	n/a	n/a	MSE2175

The QC reported here applies to the following samples: Method: SW846 8260B

M97427-1, M97427-2, M97427-3, M97427-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
100-41-4	Ethylbenzene	50	53.2	106	70-130
87-68-3	Hexachlorobutadiene	50	66.2	132* [a]	70-130
74-88-4	Iodomethane	50	59.9	120	70-130
98-82-8	Isopropylbenzene	50	64.8	130	70-130
99-87-6	p-Isopropyltoluene	50	60.5	121	70-130
1634-04-4	Methyl Tert Butyl Ether	50	43.0	86	70-130
74-95-3	Methylene bromide	50	53.4	107	70-130
75-09-2	Methylene chloride	50	53.5	107	70-130
103-65-1	n-Propylbenzene	50	56.0	112	70-130
100-42-5	Styrene	50	48.8	98	70-130
630-20-6	1,1,1,2-Tetrachloroethane	50	55.4	111	70-130
79-34-5	1,1,2,2-Tetrachloroethane	50	50.1	100	70-130
127-18-4	Tetrachloroethene	50	56.7	113	70-130
108-88-3	Toluene	50	58.5	117	70-130
87-61-6	1,2,3-Trichlorobenzene	50	46.8	94	70-130
120-82-1	1,2,4-Trichlorobenzene	50	50.6	101	70-130
71-55-6	1,1,1-Trichloroethane	50	58.8	118	70-130
79-00-5	1,1,2-Trichloroethane	50	51.5	103	70-130
79-01-6	Trichloroethene	50	57.9	116	70-130
75-69-4	Trichlorofluoromethane	50	61.9	124	70-130
96-18-4	1,2,3-Trichloropropane	50	46.4	93	70-130
95-63-6	1,2,4-Trimethylbenzene	50	56.7	113	70-130
108-67-8	1,3,5-Trimethylbenzene	50	57.0	114	70-130
108-05-4	Vinyl Acetate	50	33.0	66* [a]	70-130
75-01-4	Vinyl chloride	50	58.8	118	70-130
	m,p-Xylene	100	110	110	70-130
95-47-6	o-Xylene	50	56.1	112	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	113%	70-130%
2037-26-5	Toluene-D8	113%	70-130%
460-00-4	4-Bromofluorobenzene	112%	70-130%

(a) Outside control limits. Blank Spike meets program technical requirements.

Blank Spike/Blank Spike Duplicate Summary

Job Number: M97427
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSE2177-BS	E51574.D	1	02/05/11	TD	n/a	n/a	MSE2177
MSE2177-BSD	E51575.D	1	02/05/11	TD	n/a	n/a	MSE2177

The QC reported here applies to the following samples: Method: SW846 8260B

M97427-1, M97427-2, M97427-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	50	57.1	114	57.3	115	0	70-130/25

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	114%	111%	70-130%
2037-26-5	Toluene-D8	112%	113%	70-130%
460-00-4	4-Bromofluorobenzene	113%	113%	70-130%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: M97427
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
M97427-2MS	E51523.D	1	02/03/11	TD	n/a	n/a	MSE2175
M97427-2MSD	E51524.D	1	02/03/11	TD	n/a	n/a	MSE2175
M97427-2	E51522.D	1	02/03/11	TD	n/a	n/a	MSE2175

The QC reported here applies to the following samples: Method: SW846 8260B

M97427-1, M97427-2, M97427-3, M97427-4

CAS No.	Compound	M97427-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		50	782	1564* [a]	779	1558* [a]	0	70-130/30
71-43-2	Benzene	7220	E	50	6930	-580* [b]	7010	-420* [b]	1	70-130/30
108-86-1	Bromobenzene	ND		50	53.5	107	54.2	108	1	70-130/30
74-97-5	Bromochloromethane	ND		50	50.5	101	48.6	97	4	70-130/30
75-27-4	Bromodichloromethane	ND		50	48.1	96	47.4	95	1	70-130/30
75-25-2	Bromoform	ND		50	37.9	76	37.3	75	2	70-130/30
74-83-9	Bromomethane	ND		50	55.7	111	54.0	108	3	70-130/30
78-93-3	2-Butanone (MEK)	ND		50	39.0	78	46.3	93	17	70-130/30
104-51-8	n-Butylbenzene	ND		50	62.0	124	62.0	124	0	70-130/30
135-98-8	sec-Butylbenzene	ND		50	58.8	118	60.9	122	4	70-130/30
98-06-6	tert-Butylbenzene	0.58	J	50	62.6	124	64.4	128	3	70-130/30
75-15-0	Carbon disulfide	ND		50	53.0	106	51.3	103	3	70-130/30
56-23-5	Carbon tetrachloride	ND		50	45.5	91	45.2	90	1	70-130/30
108-90-7	Chlorobenzene	ND		50	54.5	109	54.1	108	1	70-130/30
75-00-3	Chloroethane	0.77	J	50	59.0	116	56.8	112	4	70-130/30
67-66-3	Chloroform	ND		50	55.3	111	54.1	108	2	70-130/30
74-87-3	Chloromethane	1.4	J	50	59.7	117	59.8	117	0	70-130/30
95-49-8	o-Chlorotoluene	ND		50	60.3	121	60.0	120	0	70-130/30
106-43-4	p-Chlorotoluene	ND		50	59.7	119	60.9	122	2	70-130/30
96-12-8	1,2-Dibromo-3-chloropropane	ND		50	44.1	88	38.1	76	15	70-130/30
124-48-1	Dibromochloromethane	ND		50	43.8	88	43.6	87	0	70-130/30
95-50-1	1,2-Dichlorobenzene	ND		50	54.5	109	54.4	109	0	70-130/30
541-73-1	1,3-Dichlorobenzene	ND		50	51.0	102	52.0	104	2	70-130/30
106-46-7	1,4-Dichlorobenzene	ND		50	55.9	112	55.5	111	1	70-130/30
75-71-8	Dichlorodifluoromethane	ND		50	70.7	141* [a]	69.4	139* [a]	2	70-130/30
75-34-3	1,1-Dichloroethane	ND		50	56.4	113	54.9	110	3	70-130/30
107-06-2	1,2-Dichloroethane	ND		50	49.0	98	47.5	95	3	70-130/30
75-35-4	1,1-Dichloroethene	ND		50	56.9	114	55.0	110	3	70-130/30
156-59-2	cis-1,2-Dichloroethene	ND		50	48.5	97	48.8	98	1	70-130/30
156-60-5	trans-1,2-Dichloroethene	ND		50	52.5	105	52.4	105	0	70-130/30
78-87-5	1,2-Dichloropropane	ND		50	58.9	118	54.1	108	8	70-130/30
142-28-9	1,3-Dichloropropane	ND		50	46.3	93	48.7	97	5	70-130/30
594-20-7	2,2-Dichloropropane	ND		50	59.3	119	58.0	116	2	70-130/30
563-58-6	1,1-Dichloropropene	ND		50	58.1	116	58.0	116	0	70-130/30
10061-01-5	cis-1,3-Dichloropropene	ND		50	52.4	105	51.8	104	1	70-130/30
10061-02-6	trans-1,3-Dichloropropene	ND		50	51.7	103	53.6	107	4	70-130/30

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: M97427
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
M97427-2MS	E51523.D	1	02/03/11	TD	n/a	n/a	MSE2175
M97427-2MSD	E51524.D	1	02/03/11	TD	n/a	n/a	MSE2175
M97427-2	E51522.D	1	02/03/11	TD	n/a	n/a	MSE2175

The QC reported here applies to the following samples: Method: SW846 8260B

M97427-1, M97427-2, M97427-3, M97427-4

CAS No.	Compound	M97427-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
100-41-4	Ethylbenzene	10.4		50	66.8	113	67.6	114	1	70-130/30
87-68-3	Hexachlorobutadiene	ND		50	64.1	128	64.3	129	0	70-130/30
74-88-4	Iodomethane	ND		50	57.6	115	56.4	113	2	70-130/30
98-82-8	Isopropylbenzene	10.8		50	80.7	140* [a]	82.2	143* [a]	2	70-130/30
99-87-6	p-Isopropyltoluene	ND		50	60.7	121	61.8	124	2	70-130/30
1634-04-4	Methyl Tert Butyl Ether	8.8		50	51.8	86	54.1	91	4	70-130/30
74-95-3	Methylene bromide	ND		50	47.7	95	44.9	90	6	70-130/30
75-09-2	Methylene chloride	ND		50	51.8	104	49.7	99	4	70-130/30
103-65-1	n-Propylbenzene	11.0		50	70.6	119	71.8	122	2	70-130/30
100-42-5	Styrene	ND		50	34.7	69* [a]	38.7	77	11	70-130/30
630-20-6	1,1,1,2-Tetrachloroethane	ND		50	53.9	108	51.9	104	4	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	ND		50	47.7	95	46.8	94	2	70-130/30
127-18-4	Tetrachloroethene	ND		50	59.1	118	59.0	118	0	70-130/30
108-88-3	Toluene	32.1		50	86.5	109	85.4	107	1	70-130/30
87-61-6	1,2,3-Trichlorobenzene	ND		50	49.3	99	50.6	101	3	70-130/30
120-82-1	1,2,4-Trichlorobenzene	ND		50	52.5	105	54.6	109	4	70-130/30
71-55-6	1,1,1-Trichloroethane	ND		50	55.2	110	53.3	107	4	70-130/30
79-00-5	1,1,2-Trichloroethane	ND		50	45.5	91	46.4	93	2	70-130/30
79-01-6	Trichloroethene	ND		50	57.7	115	57.4	115	1	70-130/30
75-69-4	Trichlorofluoromethane	ND		50	60.1	120	59.4	119	1	70-130/30
96-18-4	1,2,3-Trichloropropane	ND		50	45.3	91	45.7	91	1	70-130/30
95-63-6	1,2,4-Trimethylbenzene	5.2		50	60.6	111	61.9	113	2	70-130/30
108-67-8	1,3,5-Trimethylbenzene	1.6	J	50	56.2	109	57.5	112	2	70-130/30
108-05-4	Vinyl Acetate	ND		50	39.1	78	40.0	80	2	70-130/30
75-01-4	Vinyl chloride	ND		50	58.1	116	58.9	118	1	70-130/30
	m,p-Xylene	55.5		100	163	108	162	107	1	70-130/30
95-47-6	o-Xylene	9.2		50	65.4	112	65.6	113	0	70-130/30

CAS No.	Surrogate Recoveries	MS	MSD	M97427-2	Limits
1868-53-7	Dibromofluoromethane	108%	105%	109%	70-130%
2037-26-5	Toluene-D8	113%	112%	110%	70-130%
460-00-4	4-Bromofluorobenzene	112%	114%	111%	70-130%

(a) Outside control limits due to possible matrix interference. Refer to Blank Spike.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: M97427
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
M97427-2MS	E51523.D	1	02/03/11	TD	n/a	n/a	MSE2175
M97427-2MSD	E51524.D	1	02/03/11	TD	n/a	n/a	MSE2175
M97427-2	E51522.D	1	02/03/11	TD	n/a	n/a	MSE2175

The QC reported here applies to the following samples: Method: SW846 8260B

M97427-1, M97427-2, M97427-3, M97427-4

(b) Outside control limits due to high level in sample relative to spike amount.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: M97427
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
M97427-2MS	E51579.D	500	02/05/11	TD	n/a	n/a	MSE2177
M97427-2MSD	E51580.D	500	02/05/11	TD	n/a	n/a	MSE2177
M97427-2	E51578.D	500	02/05/11	TD	n/a	n/a	MSE2177

The QC reported here applies to the following samples: Method: SW846 8260B

M97427-1, M97427-2, M97427-3

CAS No.	Compound	M97427-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	105000		25000	79400	-102* [a]	80100	-100* [a]	1	70-130/30

CAS No.	Surrogate Recoveries	MS	MSD	M97427-2	Limits
1868-53-7	Dibromofluoromethane	112%	113%	116%	70-130%
2037-26-5	Toluene-D8	112%	113%	112%	70-130%
460-00-4	4-Bromofluorobenzene	109%	113%	109%	70-130%

(a) Outside control limits due to high level in sample relative to spike amount.

Volatile Internal Standard Area Summary

Job Number: M97427
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Check Std:	MSE2175-CC2152	Injection Date:	02/03/11
Lab File ID:	E51518.D	Injection Time:	11:21
Instrument ID:	GCMSE	Method:	SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	225621	9.11	371787	9.98	171689	13.26	160050	15.81	32731	6.62
Upper Limit [a]	451242	9.61	743574	10.48	343378	13.76	320100	16.31	65462	7.12
Lower Limit [b]	112811	8.61	185894	9.48	85845	12.76	80025	15.31	16366	6.12

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
MSE2175-BS	225621	9.11	371787	9.98	171689	13.26	160050	15.81	32731	6.62
MSE2175-MB	209335	9.11	339370	9.98	144720	13.26	133384	15.81	29869	6.62
M97427-4	213976	9.11	348175	9.99	146474	13.26	134226	15.81	27065	6.63
M97427-2	230405	9.12	386844	9.99	154498	13.26	143894	15.81	32874	6.62
M97427-2MS	237073	9.12	387782	10.00	163931	13.25	150702	15.81	46878	6.62
M97427-2MSD	242685	9.11	400007	9.99	170146	13.25	156234	15.81	47661	6.63
M97427-1	230705	9.13	335834	10.01	161474	13.26	172115	15.81	43328	6.63
M97427-3	226663	9.12	392259	9.99	145884	13.25	135455	15.82	36534	6.62

IS 1 = Pentafluorobenzene
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5
IS 4 = 1,4-Dichlorobenzene-d4
IS 5 = Tert Butyl Alcohol-D9

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Internal Standard Area Summary

Job Number: M97427
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Check Std:	MSE2177-CC2152	Injection Date:	02/05/11
Lab File ID:	E51573.D	Injection Time:	00:05
Instrument ID:	GCMSE	Method:	SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	221949	9.12	374039	10.00	169275	13.26	162910	15.82	37436	6.63
Upper Limit [a]	443898	9.62	748078	10.50	338550	13.76	325820	16.32	74872	7.13
Lower Limit [b]	110975	8.62	187020	9.50	84638	12.76	81455	15.32	18718	6.13
Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
MSE2177-BS	220567	9.13	371256	10.00	167558	13.27	154623	15.82	37518	6.63
MSE2177-BSD	229888	9.12	384728	10.00	171656	13.26	157169	15.82	37211	6.63
MSE2177-MB	226863	9.12	364349	10.00	154537	13.26	142711	15.83	33155	6.64
M97427-2	220282	9.12	367781	10.00	157167	13.27	142049	15.82	34860	6.64
M97427-2MS	226121	9.13	378392	10.00	174061	13.27	162665	15.82	36250	6.64
M97427-2MSD	226994	9.12	375427	10.00	170876	13.27	156837	15.82	34086	6.64
M97427-3	223466	9.12	370550	10.00	159531	13.27	151002	15.83	35371	6.65
M97427-1	222572	9.12	370379	10.00	155483	13.26	142298	15.83	33011	6.64
ZZZZZZ	212784	9.12	344118	10.01	151418	13.27	146655	15.83	38968	6.64
ZZZZZZ	230737	9.12	375583	10.00	163533	13.27	155120	15.83	36890	6.64
ZZZZZZ	221395	9.12	365515	10.01	158679	13.27	149258	15.83	38011	6.63
ZZZZZZ	230360	9.12	382608	10.00	158769	13.26	146688	15.83	39941	6.64
ZZZZZZ	225458	9.12	377124	10.00	160491	13.27	156905	15.83	34695	6.64
ZZZZZZ	225025	9.12	380032	10.00	163565	13.26	150168	15.83	39520	6.64
ZZZZZZ	220450	9.13	368184	10.00	155266	13.27	147418	15.83	35967	6.64
ZZZZZZ	220388	9.13	361403	10.00	153882	13.27	144970	15.83	34378	6.64
ZZZZZZ	222468	9.12	365889	10.00	155917	13.26	143469	15.83	35716	6.65

IS 1 = Pentafluorobenzene
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5
IS 4 = 1,4-Dichlorobenzene-d4
IS 5 = Tert Butyl Alcohol-D9

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Surrogate Recovery Summary

Job Number: M97427
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Method: SW846 8260B Matrix: AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
M97427-1	E51582.D	111.0	111.0	107.0
M97427-1	E51525.D	98.0	121.0	102.0
M97427-2	E51578.D	116.0	112.0	109.0
M97427-2	E51522.D	109.0	110.0	111.0
M97427-3	E51581.D	110.0	113.0	105.0
M97427-3	E51526.D	103.0	106.0	122.0
M97427-4	E51521.D	115.0	113.0	103.0
M97427-2MS	E51523.D	108.0	113.0	112.0
M97427-2MS	E51579.D	112.0	112.0	109.0
M97427-2MSD	E51524.D	105.0	112.0	114.0
M97427-2MSD	E51580.D	113.0	113.0	113.0
MSE2175-BS	E51518A.D	113.0	113.0	112.0
MSE2175-MB	E51520.D	119.0	116.0	110.0
MSE2177-BS	E51574.D	114.0	112.0	113.0
MSE2177-BSD	E51575.D	111.0	113.0	113.0
MSE2177-MB	E51577.D	110.0	114.0	112.0

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	70-130%
S2 = Toluene-D8	70-130%
S3 = 4-Bromofluorobenzene	70-130%

New England ACCUTEST LABORATORIES

GC/MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: M97427
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP23982-MB	S21177.D	1	02/01/11	PR	01/28/11	OP23982	MSS887

The QC reported here applies to the following samples: Method: SW846 8270C

M97427-1, M97427-2, M97427-3

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	10	0.77	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	0.68	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.57	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.69	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	2.2	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	2.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	5.0	ug/l	
95-48-7	2-Methylphenol	ND	10	0.48	ug/l	
	3&4-Methylphenol	ND	10	0.63	ug/l	
88-75-5	2-Nitrophenol	ND	10	0.66	ug/l	
100-02-7	4-Nitrophenol	ND	20	5.0	ug/l	
87-86-5	Pentachlorophenol	ND	10	3.3	ug/l	
108-95-2	Phenol	ND	5.0	2.1	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.40	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.38	ug/l	
83-32-9	Acenaphthene	ND	5.0	0.34	ug/l	
208-96-8	Acenaphthylene	ND	5.0	1.3	ug/l	
62-53-3	Aniline	ND	10	0.46	ug/l	
120-12-7	Anthracene	ND	5.0	0.27	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	0.27	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	0.23	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	0.27	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	0.61	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	0.29	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	0.32	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	0.41	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.31	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.58	ug/l	
218-01-9	Chrysene	ND	5.0	0.22	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	0.35	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	0.23	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	0.21	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	0.61	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	1.3	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.34	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	2.5	ug/l	

Method Blank Summary

Job Number: M97427
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP23982-MB	S21177.D	1	02/01/11	PR	01/28/11	OP23982	MSS887

The QC reported here applies to the following samples: Method: SW846 8270C

M97427-1, M97427-2, M97427-3

CAS No.	Compound	Result	RL	MDL	Units	Q
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	0.25	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.32	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	0.34	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	0.34	ug/l	
84-66-2	Diethyl phthalate	0.83	5.0	0.61	ug/l	J
131-11-3	Dimethyl phthalate	ND	5.0	1.3	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.49	ug/l	
206-44-0	Fluoranthene	ND	5.0	0.22	ug/l	
86-73-7	Fluorene	ND	5.0	0.29	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	0.16	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	2.5	ug/l	
67-72-1	Hexachloroethane	ND	5.0	0.43	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	0.29	ug/l	
78-59-1	Isophorone	ND	5.0	0.47	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	0.31	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.33	ug/l	
99-09-2	3-Nitroaniline	ND	10	0.32	ug/l	
100-01-6	4-Nitroaniline	ND	10	0.33	ug/l	
91-20-3	Naphthalene	ND	5.0	0.33	ug/l	
98-95-3	Nitrobenzene	ND	5.0	0.31	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	0.41	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.61	ug/l	
85-01-8	Phenanthrene	ND	5.0	0.26	ug/l	
129-00-0	Pyrene	ND	5.0	0.25	ug/l	
110-86-1	Pyridine	ND	10	0.50	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	36%	15-110%
4165-62-2	Phenol-d5	22%	15-110%
118-79-6	2,4,6-Tribromophenol	77%	15-110%
4165-60-0	Nitrobenzene-d5	70%	30-130%
321-60-8	2-Fluorobiphenyl	67%	30-130%
1718-51-0	Terphenyl-d14	76%	30-130%

Blank Spike Summary

Job Number: M97427
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP23982-BS	S21178.D	1	02/01/11	PR	01/28/11	OP23982	MSS887

The QC reported here applies to the following samples: Method: SW846 8270C

M97427-1, M97427-2, M97427-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
65-85-0	Benzoic Acid	100	23.9	24* [a]	30-130
95-57-8	2-Chlorophenol	100	65.5	66	30-130
59-50-7	4-Chloro-3-methyl phenol	100	73.8	74	30-130
120-83-2	2,4-Dichlorophenol	100	75.6	76	30-130
105-67-9	2,4-Dimethylphenol	100	71.1	71	30-130
51-28-5	2,4-Dinitrophenol	100	77.9	78	30-130
534-52-1	4,6-Dinitro-o-cresol	100	76.8	77	30-130
95-48-7	2-Methylphenol	100	58.2	58	30-130
	3&4-Methylphenol	200	107	54	30-130
88-75-5	2-Nitrophenol	100	78.0	78	30-130
100-02-7	4-Nitrophenol	100	39.2	39	30-130
87-86-5	Pentachlorophenol	100	67.8	68	30-130
108-95-2	Phenol	100	25.6	26* [a]	30-130
95-95-4	2,4,5-Trichlorophenol	100	71.5	72	30-130
88-06-2	2,4,6-Trichlorophenol	100	73.0	73	30-130
83-32-9	Acenaphthene	50	32.0	64	40-140
208-96-8	Acenaphthylene	50	27.8	56	40-140
62-53-3	Aniline	50	22.6	45	40-140
120-12-7	Anthracene	50	34.7	69	40-140
56-55-3	Benzo(a)anthracene	50	38.9	78	40-140
50-32-8	Benzo(a)pyrene	50	33.5	67	40-140
205-99-2	Benzo(b)fluoranthene	50	37.5	75	40-140
191-24-2	Benzo(g,h,i)perylene	50	36.0	72	40-140
207-08-9	Benzo(k)fluoranthene	50	38.3	77	40-140
101-55-3	4-Bromophenyl phenyl ether	50	33.2	66	40-140
85-68-7	Butyl benzyl phthalate	50	36.9	74	40-140
91-58-7	2-Chloronaphthalene	50	31.0	62	40-140
106-47-8	4-Chloroaniline	50	16.8	34* [a]	40-140
218-01-9	Chrysene	50	40.8	82	40-140
111-91-1	bis(2-Chloroethoxy)methane	50	36.5	73	40-140
111-44-4	bis(2-Chloroethyl)ether	50	35.5	71	40-140
108-60-1	bis(2-Chloroisopropyl)ether	50	35.6	71	40-140
7005-72-3	4-Chlorophenyl phenyl ether	50	32.7	65	40-140
121-14-2	2,4-Dinitrotoluene	50	38.6	77	40-140
606-20-2	2,6-Dinitrotoluene	50	36.8	74	40-140
91-94-1	3,3'-Dichlorobenzidine	50	21.6	43	40-140

Blank Spike Summary

Job Number: M97427
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP23982-BS	S21178.D	1	02/01/11	PR	01/28/11	OP23982	MSS887

The QC reported here applies to the following samples: Method: SW846 8270C

M97427-1, M97427-2, M97427-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
53-70-3	Dibenzo(a,h)anthracene	50	37.9	76	40-140
132-64-9	Dibenzofuran	50	31.7	63	40-140
84-74-2	Di-n-butyl phthalate	50	36.7	73	40-140
117-84-0	Di-n-octyl phthalate	50	38.8	78	40-140
84-66-2	Diethyl phthalate	50	39.5	79	40-140
131-11-3	Dimethyl phthalate	50	37.3	75	40-140
117-81-7	bis(2-Ethylhexyl)phthalate	50	38.0	76	40-140
206-44-0	Fluoranthene	50	37.0	74	40-140
86-73-7	Fluorene	50	34.3	69	40-140
118-74-1	Hexachlorobenzene	50	35.2	70	40-140
77-47-4	Hexachlorocyclopentadiene	50	18.5	37* [a]	40-140
67-72-1	Hexachloroethane	50	27.8	56	40-140
193-39-5	Indeno(1,2,3-cd)pyrene	50	38.5	77	40-140
78-59-1	Isophorone	50	35.4	71	40-140
91-57-6	2-Methylnaphthalene	50	30.4	61	40-140
88-74-4	2-Nitroaniline	50	38.3	77	40-140
99-09-2	3-Nitroaniline	50	18.0	36* [a]	40-140
100-01-6	4-Nitroaniline	50	32.5	65	40-140
91-20-3	Naphthalene	50	33.4	67	40-140
98-95-3	Nitrobenzene	50	36.6	73	40-140
621-64-7	N-Nitroso-di-n-propylamine	50	39.5	79	40-140
86-30-6	N-Nitrosodiphenylamine	50	37.1	74	40-140
85-01-8	Phenanthrene	50	34.9	70	40-140
129-00-0	Pyrene	50	36.2	72	40-140
110-86-1	Pyridine	50	19.8	40	40-140

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	39%	15-110%
4165-62-2	Phenol-d5	23%	15-110%
118-79-6	2,4,6-Tribromophenol	75%	15-110%
4165-60-0	Nitrobenzene-d5	71%	30-130%
321-60-8	2-Fluorobiphenyl	67%	30-130%
1718-51-0	Terphenyl-d14	69%	30-130%

Blank Spike Summary

Job Number: M97427
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP23982-BS	S21178.D	1	02/01/11	PR	01/28/11	OP23982	MSS887

The QC reported here applies to the following samples: Method: SW846 8270C

M97427-1, M97427-2, M97427-3

(a) Outside control limits. Blank Spike meets program technical requirements.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: M97427
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP23982-MS	S21223.D	1	02/02/11	PR	01/28/11	OP23982	MSS888
OP23982-MSD	S21224.D	1	02/02/11	PR	01/28/11	OP23982	MSS888
M97427-2	S21226.D	1	02/02/11	PR	01/28/11	OP23982	MSS888

The QC reported here applies to the following samples: Method: SW846 8270C

M97427-1, M97427-2, M97427-3

CAS No.	Compound	M97427-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
65-85-0	Benzoic Acid	ND		106	49.0	46	55.1	53	12	30-130/20
95-57-8	2-Chlorophenol	ND		106	80.5	76	81.0	79	1	30-130/20
59-50-7	4-Chloro-3-methyl phenol	ND		106	94.4	89	93.2	90	1	30-130/20
120-83-2	2,4-Dichlorophenol	ND		106	96.0	90	95.9	93	0	30-130/20
105-67-9	2,4-Dimethylphenol	ND		106	93.1	88	94.6	92	2	30-130/20
51-28-5	2,4-Dinitrophenol	ND		106	109	102	111	108	2	30-130/20
534-52-1	4,6-Dinitro-o-cresol	ND		106	99.9	94	101	98	1	30-130/20
95-48-7	2-Methylphenol	ND		106	76.2	72	78.6	76	3	30-130/20
	3&4-Methylphenol	ND		213	136	64	137	66	1	30-130/20
88-75-5	2-Nitrophenol	ND		106	100	94	97.5	95	3	30-130/20
100-02-7	4-Nitrophenol	ND		106	47.5	45	50.7	49	7	30-130/20
87-86-5	Pentachlorophenol	ND		106	100	94	101	98	1	30-130/20
108-95-2	Phenol	106		106	140	32	127	20* [a]	10	30-130/20
95-95-4	2,4,5-Trichlorophenol	ND		106	93.8	88	96.1	93	2	30-130/20
88-06-2	2,4,6-Trichlorophenol	ND		106	88.9	84	89.2	87	0	30-130/20
83-32-9	Acenaphthene	ND		53.2	42.7	80	41.0	80	4	40-140/20
208-96-8	Acenaphthylene	ND		53.2	36.5	69	35.7	69	2	40-140/20
62-53-3	Aniline	ND		53.2	21.4	40	20.4	40	5	40-140/20
120-12-7	Anthracene	ND		53.2	44.7	84	43.5	84	3	40-140/20
56-55-3	Benzo(a)anthracene	ND		53.2	49.6	93	49.0	95	1	40-140/20
50-32-8	Benzo(a)pyrene	ND		53.2	40.5	76	41.1	80	1	40-140/20
205-99-2	Benzo(b)fluoranthene	ND		53.2	44.4	83	45.1	87	2	40-140/20
191-24-2	Benzo(g,h,i)perylene	ND		53.2	45.1	85	44.4	86	2	40-140/20
207-08-9	Benzo(k)fluoranthene	ND		53.2	47.8	90	46.2	90	3	40-140/20
101-55-3	4-Bromophenyl phenyl ether	ND		53.2	45.3	85	44.4	86	2	40-140/20
85-68-7	Butyl benzyl phthalate	ND		53.2	45.5	86	44.9	87	1	40-140/20
91-58-7	2-Chloronaphthalene	ND		53.2	40.0	75	38.4	74	4	40-140/20
106-47-8	4-Chloroaniline	ND		53.2	20.5	39* [a]	17.6	34* [a]	15	40-140/20
218-01-9	Chrysene	ND		53.2	52.1	98	49.3	96	6	40-140/20
111-91-1	bis(2-Chloroethoxy)methane	ND		53.2	45.7	86	45.5	88	0	40-140/20
111-44-4	bis(2-Chloroethyl)ether	ND		53.2	43.6	82	43.4	84	0	40-140/20
108-60-1	bis(2-Chloroisopropyl)ether	ND		53.2	45.9	86	46.7	91	2	40-140/20
7005-72-3	4-Chlorophenyl phenyl ether	ND		53.2	43.6	82	42.9	83	2	40-140/20
121-14-2	2,4-Dinitrotoluene	ND		53.2	48.9	92	49.2	95	1	40-140/20
606-20-2	2,6-Dinitrotoluene	ND		53.2	47.9	90	47.5	92	1	40-140/20
91-94-1	3,3'-Dichlorobenzidine	ND		53.2	ND	0* [a]	ND	0* [a]	nc	40-140/20

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: M97427
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP23982-MS	S21223.D	1	02/02/11	PR	01/28/11	OP23982	MSS888
OP23982-MSD	S21224.D	1	02/02/11	PR	01/28/11	OP23982	MSS888
M97427-2	S21226.D	1	02/02/11	PR	01/28/11	OP23982	MSS888

The QC reported here applies to the following samples: Method: SW846 8270C

M97427-1, M97427-2, M97427-3

CAS No.	Compound	M97427-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
53-70-3	Dibenzo(a,h)anthracene	ND		53.2	47.6	89	47.1	91	1	40-140/20
132-64-9	Dibenzofuran	ND		53.2	42.7	80	41.4	80	3	40-140/20
84-74-2	Di-n-butyl phthalate	ND		53.2	44.6	84	47.2	92	6	40-140/20
117-84-0	Di-n-octyl phthalate	ND		53.2	43.9	83	44.4	86	1	40-140/20
84-66-2	Diethyl phthalate	0.86	J	53.2	50.0	92	49.7	95	1	40-140/20
131-11-3	Dimethyl phthalate	ND		53.2	47.4	89	47.6	92	0	40-140/20
117-81-7	bis(2-Ethylhexyl)phthalate	ND		53.2	44.9	84	45.0	87	0	40-140/20
206-44-0	Fluoranthene	ND		53.2	48.8	92	48.9	95	0	40-140/20
86-73-7	Fluorene	ND		53.2	45.3	85	44.8	87	1	40-140/20
118-74-1	Hexachlorobenzene	ND		53.2	46.3	87	46.9	91	1	40-140/20
77-47-4	Hexachlorocyclopentadiene	ND		53.2	25.3	48	26.6	52	5	40-140/20
67-72-1	Hexachloroethane	ND		53.2	33.7	63	34.8	68	3	40-140/20
193-39-5	Indeno(1,2,3-cd)pyrene	ND		53.2	48.0	90	47.9	93	0	40-140/20
78-59-1	Isophorone	ND		53.2	45.3	85	45.2	88	0	40-140/20
91-57-6	2-Methylnaphthalene	ND		53.2	40.3	76	39.6	77	2	40-140/20
88-74-4	2-Nitroaniline	ND		53.2	50.4	95	50.1	97	1	40-140/20
99-09-2	3-Nitroaniline	0.69	J	53.2	25.5	47	23.2	44	9	40-140/20
100-01-6	4-Nitroaniline	ND		53.2	42.4	80	42.1	82	1	40-140/20
91-20-3	Naphthalene	1.1	J	53.2	44.8	82	44.0	83	2	40-140/20
98-95-3	Nitrobenzene	ND		53.2	45.5	86	44.9	87	1	40-140/20
621-64-7	N-Nitroso-di-n-propylamine	ND		53.2	49.6	93	49.6	96	0	40-140/20
86-30-6	N-Nitrosodiphenylamine	ND		53.2	47.1	89	46.0	89	2	40-140/20
85-01-8	Phenanthrene	ND		53.2	45.6	86	45.9	89	1	40-140/20
129-00-0	Pyrene	ND		53.2	44.4	83	42.1	82	5	40-140/20
110-86-1	Pyridine	ND		53.2	22.1	42	24.4	47	10	40-140/20

CAS No.	Surrogate Recoveries	MS	MSD	M97427-2	Limits
367-12-4	2-Fluorophenol	45%	47%	45%	15-110%
4165-62-2	Phenol-d5	28%	30%	28%	15-110%
118-79-6	2,4,6-Tribromophenol	92%	96%	97%	15-110%
4165-60-0	Nitrobenzene-d5	86%	87%	87%	30-130%
321-60-8	2-Fluorobiphenyl	82%	83%	82%	30-130%
1718-51-0	Terphenyl-d14	79%	79%	79%	30-130%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: M97427
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP23982-MS	S21223.D	1	02/02/11	PR	01/28/11	OP23982	MSS888
OP23982-MSD	S21224.D	1	02/02/11	PR	01/28/11	OP23982	MSS888
M97427-2	S21226.D	1	02/02/11	PR	01/28/11	OP23982	MSS888

The QC reported here applies to the following samples: Method: SW846 8270C

M97427-1, M97427-2, M97427-3

(a) Outside control limits due to possible matrix interference. Refer to Blank Spike.

Semivolatile Internal Standard Area Summary

Job Number: M97427
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Check Std:	MSS887-CC884	Injection Date:	02/01/11
Lab File ID:	S21176.D	Injection Time:	16:41
Instrument ID:	GCMSS	Method:	SW846 8270C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	201622	5.72	780813	7.06	370762	9.24	559341	11.43	505227	15.78	501267	18.01
Upper Limit [a]	403244	6.22	1561626	7.56	741524	9.74	1118682	11.93	1010454	16.28	1002534	18.51
Lower Limit [b]	100811	5.22	390407	6.56	185381	8.74	279671	10.93	252614	15.28	250634	17.51
Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP23983-MB	226558	5.71	935342	7.06	440804	9.24	658175	11.42	568401	15.77	547583	18.00
OP23982-MB	226558	5.71	935342	7.06	440804	9.24	658175	11.42	568401	15.77	547583	18.00
OP23983-BS	276639	5.71	1065008	7.06	506348	9.24	751598	11.43	640909	15.77	585986	18.00
OP23982-BS	276639	5.71	1065008	7.06	506348	9.24	751598	11.43	640909	15.77	585986	18.00
OP23983-MS	248473	5.71	990576	7.06	470949	9.24	691096	11.42	613985	15.77	580794	18.00
OP23983-MSD	248727	5.71	984234	7.06	465689	9.24	685020	11.42	616609	15.77	598596	18.00
M97394-2	196686	5.71	810659	7.06	379995	9.23	574595	11.42	506471	15.77	486930	18.00
ZZZZZZ	210273	5.71	868830	7.06	413727	9.24	628249	11.42	572608	15.77	566231	18.00
OP23992-MB	219005	5.71	894616	7.06	426518	9.24	638974	11.42	574318	15.77	564513	18.00
OP23992-BS	219757	5.71	844791	7.06	403528	9.24	588385	11.43	521149	15.77	517384	18.00
OP23992-MS	212009	5.71	813105	7.06	379362	9.24	566180	11.43	503971	15.77	499392	18.00
OP23992-MSD	217974	5.71	838545	7.06	399200	9.24	582936	11.43	505662	15.77	493448	18.00
M97452-1	205636	5.71	859676	7.06	412247	9.24	620566	11.42	559518	15.77	535041	18.00
ZZZZZZ	223795	5.71	890326	7.06	412134	9.24	620158	11.42	539134	15.77	528657	18.00
ZZZZZZ	214333	5.71	887844	7.06	419479	9.24	628548	11.42	558955	15.77	551793	18.00
ZZZZZZ	219760	5.71	900650	7.06	422821	9.24	636700	11.42	558050	15.77	543805	18.00
ZZZZZZ	232062	5.71	959046	7.06	461026	9.24	684866	11.42	608354	15.77	599766	18.00
ZZZZZZ	235374	5.71	972743	7.06	457350	9.24	702935	11.42	601975	15.77	579175	18.00
ZZZZZZ	213341	5.71	869920	7.06	422007	9.24	626828	11.42	542398	15.77	532970	18.00
ZZZZZZ	222268	5.71	899583	7.06	428052	9.24	645009	11.42	559187	15.77	551389	18.00
ZZZZZZ	217133	5.71	895812	7.06	423168	9.24	635893	11.42	559925	15.77	557283	18.00
ZZZZZZ	217136	5.71	871008	7.06	409250	9.24	604999	11.42	515639	15.77	497561	18.00
ZZZZZZ	228958	5.71	925721	7.06	433549	9.24	626860	11.42	510517	15.77	480863	18.00
ZZZZZZ	236729	5.71	949003	7.06	446436	9.24	615152	11.43	512583	15.77	500527	18.00
ZZZZZZ	226069	5.72	906777	7.06	417905	9.24	580958	11.43	490355	15.77	487700	18.00
ZZZZZZ	220990	5.72	893891	7.06	405618	9.24	585946	11.42	487214	15.77	469344	18.00
ZZZZZZ	219298	5.72	785882	7.07	378894	9.25	552398	11.43	449032	15.77	452629	18.00

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

Semivolatile Internal Standard Area Summary

Job Number: M97427
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Check Std:	MSS887-CC884	Injection Date:	02/01/11
Lab File ID:	S21176.D	Injection Time:	16:41
Instrument ID:	GCMSS	Method:	SW846 8270C

Lab	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
Sample ID	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

6.4.1

6

Semivolatile Internal Standard Area Summary

Job Number: M97427
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Check Std:	MSS888-CC884	Injection Date:	02/02/11
Lab File ID:	S21213.D	Injection Time:	12:54
Instrument ID:	GCMSS	Method:	SW846 8270C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	163195	5.72	636245	7.07	303706	9.25	456723	11.44	428438	15.79	414759	18.02
Upper Limit [a]	326390	6.22	1272490	7.57	607412	9.75	913446	11.94	856876	16.29	829518	18.52
Lower Limit [b]	81598	5.22	318123	6.57	151853	8.75	228362	10.94	214219	15.29	207380	17.52
Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
ZZZZZZ	153876	5.72	644200	7.07	311817	9.25	478355	11.43	432471	15.78	430786	18.02
ZZZZZZ	188231	5.72	756203	7.07	372070	9.25	547151	11.43	468631	15.79	448103	18.02
ZZZZZZ	180844	5.72	744597	7.07	363502	9.25	554158	11.43	492731	15.79	481183	18.02
ZZZZZZ	133383	5.72	556129	7.07	267158	9.25	412175	11.43	367456	15.78	359904	18.02
ZZZZZZ	196045	5.72	805982	7.07	391757	9.25	581409	11.43	491353	15.79	471756	18.02
ZZZZZZ	187772	5.72	778262	7.07	373597	9.25	562799	11.43	507506	15.79	488668	18.02
ZZZZZZ	197713	5.72	822333	7.07	397650	9.25	609042	11.43	538695	15.79	522884	18.02
ZZZZZZ	186149	5.72	752311	7.07	368481	9.25	561793	11.43	508037	15.79	496618	18.02
ZZZZZZ	194109	5.72	798381	7.07	394050	9.25	590743	11.43	529269	15.78	507312	18.02
OP23982-MS	173864	5.72	665027	7.07	319891	9.25	478058	11.44	428244	15.79	429183	18.02
OP23982-MSD	174057	5.72	677142	7.07	323062	9.25	487152	11.43	441664	15.79	437928	18.02
M97427-1	172579	5.72	702657	7.07	341221	9.25	531801	11.43	462993	15.78	468300	18.02
M97427-2	171997	5.72	701838	7.07	343974	9.25	521496	11.43	464968	15.78	458609	18.02
M97427-3	178896	5.72	714774	7.07	351291	9.25	547595	11.43	461989	15.78	464311	18.02
ZZZZZZ	181307	5.72	744551	7.07	356081	9.25	547214	11.43	487837	15.78	480694	18.02
ZZZZZZ	185150	5.72	769476	7.06	368321	9.25	552772	11.43	509251	15.78	488099	18.01
OP23963-MB	223635	5.72	904117	7.06	444024	9.25	667369	11.43	570705	15.78	517933	18.01
OP23963-BS	186914	5.72	726279	7.07	342642	9.25	512609	11.43	449976	15.78	399841	18.02
OP23963-MS	183005	5.72	707658	7.06	332292	9.25	481805	11.43	405146	15.78	365992	18.01
OP23963-MSD	207483	5.72	810349	7.07	400003	9.25	602490	11.43	496412	15.78	458168	18.02
M97350-10	202524	5.72	844111	7.06	400402	9.25	594470	11.43	502754	15.78	475366	18.01

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Surrogate Recovery Summary

Job Number: M97427
Account: SHELLWIC Shell Oil
Project: URSMOSTL:97216640 170 East Rand Avenue Hartford, IL

Method: SW846 8270C Matrix: AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
M97427-1	S21225.D	44.0	27.0	92.0	82.0	79.0	80.0
M97427-2	S21226.D	45.0	28.0	97.0	87.0	82.0	79.0
M97427-3	S21227.D	40.0	25.0	88.0	83.0	78.0	75.0
OP23982-BS	S21178.D	39.0	23.0	75.0	71.0	67.0	69.0
OP23982-MB	S21177.D	36.0	22.0	77.0	70.0	67.0	76.0
OP23982-MS	S21223.D	45.0	28.0	92.0	86.0	82.0	79.0
OP23982-MSD	S21224.D	47.0	30.0	96.0	87.0	83.0	79.0

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	15-110%
S2 = Phenol-d5	15-110%
S3 = 2,4,6-Tribromophenol	15-110%
S4 = Nitrobenzene-d5	30-130%
S5 = 2-Fluorobiphenyl	30-130%
S6 = Terphenyl-d14	30-130%